

# **Arlington Conservation Commission**

**Date:** Thursday, November 2, 2023

**Time:** 7:00 PM

Location: Conducted by Remote Participation and in person at the Planning and Community

Development Department conference room, first floor Town Hall Annex.

Please register in advance for this meeting. Reference materials, instructions, and access information for this specific meeting will be available 48 hours prior to the meeting on the Commission's agenda and minutes page. This meeting will be conducted in a hybrid format consistent with Chapter 2 of the Acts of 2023, which further extends certain COVID-19 measures regarding remote participation in public meetings until March 31, 2025. Please note: Not all items listed may in fact be discussed and other items not listed may be brought up for discussion to the extent permitted by law. This agenda includes those matters which can be reasonably anticipated to be discussed at the meeting.

### **Agenda**

- 1. Administrative
  - a. Meeting Minutes.
  - b. Correspondence Received.

    All correspondence is available to the public. For a full list, contact the Conservation Agent at concomm@town.arlington.ma.us.

#### 2. Discussion

- a. Request for Certificate of Compliance: DCR Mystic River Outfall Maintenance.
- b. Enforcement Order: 66R Dudley Street.
- c. Notice of Violation: Watermill Place.
- d. Symmes Conservation Restriction.
- e. Zoning and Ownership of Town-owned Properties.
- f. CPA Updates.
- g. Water Bodies Working Group.
  - Spy Pond Invasive Control.
- h. Park & Recreation Commission Liaison.
  - Next meeting of the Park & Recreation Commission to be held on 11/14.

#### 3. Hearings

### Notice of Intent: Thorndike Place (Continuation from 10/19/23).

Notice of Intent: Thorndike Place (Continuation from 10/19/23).

The Conservation Commission will hold a public hearing under the Wetlands Protection Act to consider a Notice of Intent for the construction of Thorndike Place, a multifamily development on Dorothy Road in Arlington. This hearing will concern the Conservation Commission's request for peer review of submitted materials. This hearing will include an update on progress regarding wildlife habitat and stormwater peer review.

#### Request for Determination of Applicability: 70 Dow Avenue.

Request for Determination of Applicability: 70 Dow Avenue.

The Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for an addition to the existing structure at 70 Dow Avenue in Arlington.



# **Town of Arlington, Massachusetts**

# Correspondence Received.

### Summary:

Correspondence Received.

All correspondence is available to the public. For a full list, contact the Conservation Agent at concomm@town.arlington.ma.us.

### ATTACHMENTS:

	Туре	File Name	Description
ם	Reference Material	Correspondence_Received _Adam_Chaprnka.pdf	Correspondence Received - Adam Chaprnka
ם	Reference Material	Correspondence_Received _Beth_Melofchik.pdf	Correspondence Received - Beth Melofchik
ם	Reference Material	Correspondence_Received _Coalition_to_Save_the_Mugar_Wetlands.pdf	Correspondence Received - Coalition to Save the Mugar Wetlands
ם	Reference Material	Correspondence_Received _Jo_Ann_Reneker.pdf	Correspondence Received - Jo Ann Reneker
ם	Reference Material	Correspondence_Received _John_Yurewicz.pdf	Correspondence Received - John Yurewicz
ם	Reference Material	Correspondence_ReceivedRepDave_Rogers.pdf	Correspondence Received - Rep. Dave Rogers
ם	Reference Material	Correspondence_Received _Stephanie_Kiefer.pdf	Correspondence Received - Stephanie Kiefer
ם	Reference Material	Correspondence_ReceivedDavid_White.pdf	Correspondence Received - David White
ם	Reference Material	Correspondence_ReceivedRobert_and_Julie_DiBiase.pdf	Correspondence Received - Robert and Julie DiBiase

# Re: 2-3 foot holes being dug in Mt Gilboa

# Adam Chaprnka < chaprnka@gmail.com>

Mon 10/23/2023 8:55 AM

To:David Morgan <dmorgan@town.arlington.ma.us> Cc:ConComm <ConComm@town.arlington.ma.us>

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello again David,

Thanks for the response. Quick update: I ran into a small group of boys with bikes and shovels on Saturday. Apparently they have been digging holes and piling up dirt, carving out turns and such to make a mountain bike track in Gilboa. I am not sure this is allowed but I'm guessing it's not.

I let them know digging deep holes right along paths in Gilboa creates a safety issue where unsuspecting people might sprain an ankle or get another injury. I also let them know piling up loose dirt along the path to create their jumps would likely increase erosion which is bad for the conservation area. They appeared to be respectful middle school aged boys and they told me they would fill in the holes and stop digging in the area.

That's where I left it with them and haven't been through that way since Saturday.

On Mon, Oct 23, 2023, 8:45 AM David Morgan < <a href="mailto:dmorgan@town.arlington.ma.us">dmorgan@town.arlington.ma.us</a>> wrote:

Thanks, Adam, I'll notify the commission and ask how they'd like to proceed.

Cheers, David

David Morgan | Environmental Planner + Conservation Agent | Department of Planning and Community Development | 781.316.3012

Arlington values equity, diversity, and inclusion. We are committed to building a community where everyone is heard, respected, and protected.

From: Adam Chaprnka < <a href="mailto:chaprnka@gmail.com">chaprnka@gmail.com</a> Sent: Friday, October 20, 2023 11:20 AM

To: David Morgan < <a href="mailto:dmorgan@town.arlington.ma.us">dmorgan@town.arlington.ma.us</a> <a href="mailto:Cc: ConComm@town.arlington.ma.us">Cc: ConComm@town.arlington.ma.us</a> <a href="mailto:Subject: Re: 2-3">Subject: Re: 2-3 foot holes being dug in Mt Gilboa</a>

Subject: Re: 2-3 foot holes being dug in Mt Gilboa

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

It does not look like tree removal. I thought at first someone perhaps was digging out big rocks. Upon a surveying a wider area near the holes, it might be someone using the dirt to build mountain

bike obstacles. Not sure though.

On Fri, Oct 20, 2023, 11:13 AM David Morgan < <a href="mailto:dmorgan@town.arlington.ma.us">dmorgan@town.arlington.ma.us</a> > wrote:

Thanks, Adam. I don't know what this activity is about. Was the tree in the second photo recently removed?

Cheers, David

David Morgan | Environmental Planner + Conservation Agent | Department of Planning and Community Development | 781 316 3012

Arlington values equity, diversity, and inclusion. We are committed to building a community where everyone is heard, respected, and protected.

From: Adam Chaprnka < <a href="mailto:chaprnka@gmail.com">chaprnka@gmail.com</a>>

Sent: Friday, October 20, 2023 10:09 AM

To: ConComm < ConComm@town.arlington.ma.us > Subject: 2-3 foot holes being dug in Mt Gilboa

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Not sure who to report this concern to or who has jurisdiction over Mt Gilboa but the Arlington Conservation Commission seemed like a good start. Wednesday I noticed 2-3 foot holes being dug alongside trails. There are more today. It does not look like any official business and its definitely a safety concern for unexpected children and seniors due to its proximity to the trail path.

# Globe, Climate Chief report, Natural and Working Lands Conserved

# Beth Melofchik <tankmadel@yahoo.com>

Fri 10/27/2023 9:04 AM

To:ConComm <ConComm@town.arlington.ma.us>;Susan Chapnick <s.chapnick@comcast.net>
Cc:Robin Bergman <robinorig@gmail.com>;Ellen Cohen <elscorn@aol.com>;Beth Melofchik <tankmadel@yahoo.com>

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David, Susan,

Have you seen this on page 47 MA Climate Chief Melissa Hofer's report, begs the question what is Arlington's plan to preserve carbon sequestration capacity? In Boston Globe

Beth Melofchik

"The 87-page <u>report</u> includes 39 recommendations to meet the state's ambitious targets laid out in its 2021 climate law, which calls for halving emissions below 1990 levels by the end of the decade and reaching net-zero emissions, contributing no additional planet-warming pollution to the atmosphere, by 2050."

# <u>Massachusetts climate chief recommends statewide reforms in new report</u> (bostonglobe.com)

From the report:

Natural and Working Lands Conserved.

To retain natural and working lands' (NWL) carbon sequestration capacity through 2050 and beyond, and to prevent further emissions of carbon held primarily in forests and wetlands, the Commonwealth has committed to increasing permanent conservation of natural and working lands in Massachusetts to at least 40 percent by 2050, with the more immediate mandates of at least 28 percent conserved by 2025 and at least 30 percent by 2030. This requires conservation of an additional 685,000 acres by 2050 (+63,400 by 2025 and +167,000 by 2030).

o EEA's "Forests as Climate Solutions" initiative will accelerate progress toward these mandates ensuring state forest management incorporates the best climate science, by enhancing forest conservation efforts through land acquisitions, increasing support for private and municipal forest conservation, and expanding and establishing forest reserves on public and private lands.

The initiative will also set, and commit to attaining, goals for forest land protection and reduced deforestation.

o The Resilient Lands Initiative sets out a vision to conserve and enhance the health of Massachusetts' forests, farms, and soils for the benefit of residents. It includes a strategy for promoting the goal of no net loss of forests and farmlands through more coordinated land use planning, investments in natural resource-based economic development, and expansion of restoration and urban greenspace efforts. o EEA and associated agencies are reviewing and updating evaluation criteria for state landa.

acquisitions and land conservation programs to prioritize protection of forests vulnerable to development, carbon-rich forests, wetlands, and open space upstream of wetlands such as marsh migration corridors.

o MassDEP is investigating approaches to increase statewide protection of wetlands and, at minimum, the first 50 feet of the 100-foot wetland buffer zone.



October 23, 2023

To Members of the Conservation Commission:

We are writing to address several concerns that arose at the previous hearing on October 19<sup>th</sup> for the proposed Thorndike Place development.

It was briefly discussed in the hearing that the peer reviews requested by the Conservation Commission be conducted by another engineering firm other than the Beta Group. We feel it is critical at this juncture to have a new set of eyes to provide an impartial opinion. Also discussed was the possibility of a peer review on stormwater management. We feel this is absolutely necessary given the critical nature and history of flooding in this low-lying area.

Therefore, we respectfully request that the Con Comm seek out alternative firms to conduct these two vital reviews.

Thank you for your time and attention to these concerns.

Jeanette Cummings, 32 Dorothy Rd. Julie DiBiase, 29 Littlejohn St.

On behalf of the Coalition to Save the Mugar Wetlands

Cc: David Morgan, Environmental Planner/Conservation Agent

To arbingt on Conservation Commission, at a Yourn Day booth I was advised to contact you

about the Mugar Wetlands with my opinion, I don't have a

Computer so I'm writing.

I'm against construction of Thorndike Place on this area,

I want the area to remain as it is.

Jo ann Reneker 24 Grove st. #2 arlington ma 02474

# Mugar Wetlands - Thorndike Place

### jspikey@comcast.net <jspikey@comcast.net>

Tue 10/17/2023 1:08 PM

To:ConComm <ConComm@town.arlington.ma.us>;Jeanette Cummings <jecummings87@gmail.com>;jada86@aol.com <jada86@aol.com>

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Town of Arlington, Mass. Conservation Commission

#### Honorable Members

My name is John Yurewicz. I am a 57 year resident of the Town, 39 of which are at 47 Mott Street at the corner of Littlejohn Street. I write to you to explain my rationale for NOT allowing this Thorndike Place development.

We have successfully fought development on this site since 1975. There have been a few different plans, none of which were allowed. The reason(s) mostly because it would be done in an existing wetland. "Wetlands" always had some "hands off!!" effect on developers, contractors, and municipal authorities.

Now, in 2023, the authorities have come 'half circle' and are contemplating allowing this development. The site is still a large, natural wetland! It is also one of the very few wetlands in the Town and is prominent in that the site is heavily treed, and is the habitat for a wide variety of wildlife. There are so few natural green spaces and even fewer wetlands in the Town! To lose this one would be cruel to all those nearby.

What has changed?? I'll tell you! The Commonwealth of Mass. created their "40B" program that says the State can trump local zoning laws by simply being the State and declaring how much 'affordable housing' the Town must have. In 2016, there was debate between the Town and the State about just how much affordable housing there was in Arlington. The State flexed their muscles and decreed that Arlington was deficient in affordable housing as shown by some formula.

Now, in 2023, the numbers will show that the Town is, in fact, up to the required amount of affordable housing. The State, in their echelon of power claims that today's numbers don't count and all permitting and allowances must be based on those debatable numbers from seven years ago.

So, here we are today. Counting, but not limited to the 'block' described by: Route 2, Lake Street, Margaret Street, the Minuteman Bike Path, and Thorndike Field, there are approximately 240 residential single and two-family dwellings. In that 'block' are several 'sleepy', narrow residential streets connecting residents to each other and the rest of the Town. Vehicular activity within that 'block' is minimal. Adding a development the size of Thorndike Place puts a negative cast on this quiet, residential neighborhood 'Block', if you will. Without echoing all the topics raised over the years: traffic, ground water, air pollution, emergency access, infrastructure, loss of green space, and, not the least of which, a complete disruption to the daily existences of all

the occupants of those aforementioned dwellings, we can add all those residents on the other side of Lake Street and Margaret Street. Everyone described will be negatively effected! Lake Street already acts as a very busy two way connector from Mass. Ave. to Route 2 and this development will further enlarge and congest that traffic.

All through these nearly fifty years of fending off developments and winning, we neighboring owners have watched as the owners of these wetlands have been "absentee landlords"! Homeless people have set up in a hodge podge of a lesser than 'shanty-town' cardboard, tents, lean-to's, and a whole barrage of trashy, unhealthy living waste! The landlord NEVER provided policing or rejection of these conditions. Large, old trees have fallen and never been cut and removed. The wonderful benefits of that green space have been countered by a non-participating landlord who, now, wants to build, sell, collect monies, and then "DONATE" the remaining, undeveloped land to the Town for the Town to police and maintain, so they can wipe their hands clean of any future responsibility, just like that!

Absolutely none of the proposed development benefits any of the many occupants of the previously described 'block'! In reality it is all a huge negative in so many ways! Underground water aquifers, additional motor vehicle traffic, a strain to the existing services (water, sewer, electricity), delays to emergency access to all the streets in and around the 'Block', and the permanent loss of natural greenery!

Consider, also, that owners and developers in cities and towns throughout Massachusetts will be watching to see what happens with this wetland development! An environmentally dangerous precedent could be set!

In closing, a word comes to mind: "Conserve"! If this wetland is allowed to be ruined and is lost because of the proposed Thorndike Place Development, I wonder what will remain for our Conservation Commission to "Conserve". Instead, we can all mull what was lost because an absentee landlord managed to convince authorities that their development is a good thing. It is NOT, in any way, a good thing.

Please consider closely what will be lost with this proposed development.

Respectfully submitted,

John C. Yurewicz



# The Commonwealth of Massachusetts

#### HOUSE OF REPRESENTATIVES STATE HOUSE, BOSTON 02133-1054

STATE HOUSE, ROOM 544 TEL: (617) 722-2637 Dave Rogers@MAhouse.gov

### To the members of the Arlington Conservation Commission:

I write to you today in my capacity as a state representative whose district encompasses the site of the proposed Thorndike Place development. First off, let me state that I greatly respect your service and also deeply appreciate the difference between local versus state issues. As such, in my 10 years as the State Representative for the 24th Middlesex District, very rarely do I offer testimony to local governmental bodies. The significance of this project compels me to do so.

I have expressed my opposition to this proposed development in the past, as has Arlington Town Meeting, the Select Board and the overwhelming majority of town residents. While I am already on record, I would like to briefly reiterate a number of concerns about the current proposal. First off, one of the most pressing worries is the prospect of increased flooding. The builder proposes to undertake construction on 7 acres in the wetlands—5.5 of which are in the FEMA floodplain. These wetlands act a "sponge" for the surrounding area. Failure to preserve this natural safeguard may well lead to increased flooding in the neighborhood, affecting homes and businesses, including the Thorndike Field complex used by Arlington's children and students. Over time, as climate change worsens and precipitation events become more intense, we can expect flooding to grow more extreme.

In addition, the area around the proposed development is one of the largest remaining open spaces in Arlington. As the Greater Boston region is faces more development, our remaining wild spaces become more precious. Deer, foxes, birds, and a variety of other wildlife call the wetlands home. Paving over these wetlands would irreversibly damage one of the last refuges for wild animals in Arlington at a time when biodiversity and habitat loss are important concerns.

Of course, increased traffic and the corresponding increase in harmful emissions is another concern. Those emissions will degrade air quality in town, particularly in East Arlington.

I am aware that the Conservation Commission has asked for extensive peer reviewed studies, particularly pertaining to hydrology, and I appreciate the countless hours of work from the Conservation Commission that has gone into evaluating this project already. As the body whose mission it is to protect and preserve Arlington's wetlands and conservation lands, I humbly and respectfully request that you to continue to consider fully all of the deleterious environmental and ecological impacts of the project. In doing so, I hope and trust that every possible effort is made under the law to protect our local environment and the community at large.

Thank you for your time, and for your consideration of this important matter.

Regards, Dave Rogers

State Representative 24th Middlesex District (Arlington/Belmont/Cambridge)



# Re: Thorndike Place Development

### David Morgan <a href="mailto:dmorgan@town.arlington.ma.us">dmorgan@town.arlington.ma.us</a>

Thu 10/26/2023 3:48 PM

To:Stephanie Kiefer <SKiefer@smolakvaughan.com> Cc:Rinaldi, Dominic R. <drinaldi@bscgroup.com>

1 attachments (15 KB)

Thorndike Place Peer Review Solicitation.docx;

#### Hi Stephanie,

Yes, the call for peer reviewers went out to five firms this afternoon. For stormwater review, I solicited Weston & Sampson and Kleinfelder. For habitat review, Landscape Stewardship, Inc., and for both, I asked Hatch and SWCA. Bids will have to be submitted for each by the 31st. Additional details can be found in the attached.

Cheers, David

David Morgan | Environmental Planner + Conservation Agent | Department of Planning and Community Development | 781.316.3012

Arlington values equity, diversity, and inclusion. We are committed to building a community where everyone is heard, respected, and protected.

From: Stephanie Kiefer < SKiefer@smolakvaughan.com>

Sent: Tuesday, October 24, 2023 1:08 PM

**To:** David Morgan <dmorgan@town.arlington.ma.us> **Cc:** Rinaldi, Dominic R. <drinaldi@bscgroup.com>

Subject: RE: Thorndike Place Development

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David,

Thank you. Could you kindly confirm whether the Commission has advanced efforts to advance the peer review as voted on at last week's hearing and provide all written scopes or proposed contracts related thereto. Thank you in advance.

Best,

Stephanie

Stephanie A. Kiefer, Esq. Tel. 978.682.5220 (Direct)

SMOLAK & VAUGHANS

From: David Morgan <dmorgan@town.arlington.ma.us>

Sent: Tuesday, October 24, 2023 8:37 AM

To: Rinaldi, Dominic R. <drinaldi@bscgroup.com>; Stephanie Kiefer <SKiefer@smolakvaughan.com>

Subject: Fw: Thorndike Place Development 13 of 244

Hi Dom and Stephanie, Please see below and attached.

Cheers, David

David Morgan | Environmental Planner + Conservation Agent | Department of Planning and Community Development | 781.316.3012

Arlington values equity, diversity, and inclusion. We are committed to building a community where everyone is heard, respected, and protected.

From: Coalition to Save the Mugar Wetlands < <a href="mailto:savethemugarwetlands@gmail.com">savethemugarwetlands@gmail.com</a>

Sent: Monday, October 23, 2023 6:26 PM

**To:** ConComm < <u>ConComm@town.arlington.ma.us</u>> **Cc:** David Morgan < <u>dmorgan@town.arlington.ma.us</u>>

Subject: Thorndike Place Development

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

To Members of the Conservation Commission:

Attached please find a letter to the Conservation Commission from the Coalition to Save the Mugar Wetlands regarding the hearing of October 19th.

Thank you,

Jeanette Cummings 32 Dorothy Rd.

On Behalf of the Coalition to Save the Mugar Wetlands

# **Future Rainfall Analysis**

# David White <whitede@gmail.com>

Tue 10/31/2023 9:56 AM

To:ConComm <ConComm@town.arlington.ma.us>;Chuck Tirone <ctirone@ci.reading.ma.us>;Stevens, Nathaniel (home) <stevensnathaniel11@gmail.com>;Mike Gildesgame <mikeg125@gmail.com>;David White <dwhite@gilbertwhite.com>;Susan Chapnick <s.chapnick@comcast.net>;Dave Kaplan <dkaplan31@gmail.com>;Brian McBride <BrianMcB@outlook.com>

#### 1 attachments (2 MB)

TY2050 20221202techslidedeckdraftforcomments.pdf;

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

All,

As part of the planning for the new CSO control plan Cambridge, Somerville and MWRA have come up with new climate based rainfall projections for 2050 (see attached draft).

Something we might want to look at and perhaps reference in the future.

Note that a Typical Year is somewhat an artificial construct for CSO planning purposes, but 2050 is a big increase from the current 1992 Typical Year.

David

# **Proposed Thorndike Place**

### Julie DiBiase < jada86@aol.com>

Thu 10/26/2023 9:35 PM

To:ConComm <ConComm@town.arlington.ma.us>;David Morgan <dmorgan@town.arlington.ma.us>

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear Conservation Committee Members.

We are writing to submit comments pertaining to the last Con Com hearing on October 19th regarding the proposed Thorndike Place development.

As discussed during the hearing, the potential for a Peer Review on the Developer's storm water mitigation plans was to be determined by the Town's Engineer. This is a critical issue that impacts the many residents in the area that consistently experience flooding and warrants further review. We respectfully ask that a Peer Review be done to determine what the impact will be to our existing systems which are already undersized.

We also ask that Beta Group not be used for any Peer Reviews that the Con Com purposes. Since, Beta Group has worked on the proposed project during the ZBA's review, we believe it would be beneficial to hire a different consultant to put a "fresh set of eyes" on the project for evaluating the woodland restoration, wildlife enhancement, and storm water management.

Thank you,

Robert and Julie DiBiase 29 Littlejohn Street



# **Town of Arlington, Massachusetts**

Request for Certificate of Compliance: DCR Mystic River Outfall Maintenance.

### Summary:

Request for Certificate of Compliance: DCR Mystic River Outfall Maintenance.

### ATTACHMENTS:

	Type	File Name	Description
ם	Reference Material	DCR_Mystic_River_Outfall _Order_of_Conditions_10.19.2018.pdf	DCR Mystic River Outfall - Order of Conditions 10.19.2018.pdf
ם	Reference Material	DCR_Mystic_River_Outfall_Maintenance _COC09.18.23.pdf	DCR Mystic River Outfall Maintenance - COC - 09.18.23.pdf



# **TOWN OF ARLINGTON**

730 Massachusetts Ave. Arlington, MA 02476 781-316-3012

### ARLINGTON CONSERVATION COMMISSION

### **CERTIFICATE OF UNDERSTANDING**

RE: Findings and Special	Conditions in Wetland Res	ource Areas, Buffer Zones, a	and Regulatory Floodways
Street Address: Mystic R	liver State Reservation	DEP File No: 091-0302	!
Owner: Nick Grove, DCR		Issue Date: October 1	9, 2018
	, owner of by acknowledge and under	stand that:	, Arlington,
that any <b>new wo</b>	y property lies within wetlands within wetlands within this area is subjection Commission;		Initials
I, as property ow	ner, am responsible for al ucted by contractors;	l work on my property	Initials
	read and understand all the		
<ul> <li>There are specifiagree to follow;</li> </ul>	c requirements PRIOR to t	he start of work which I	Initials
There are specifi which I agree to	c <b>requirements DURING co</b> follow;	onstruction and work	Initials
	c <b>requirements for getting</b> e all permitted work is com		Initials
the kind of lands	ber of ongoing/perpetual of ongoing and maintenance are areas and/or buffer zone.	activities allowed within	Initials Initials
I have carefully reviewed	l and understand all of thes	se requirements and agree	to adhere to them.
Signature	Printed Na	 me	Date



### TOWN OF ARLINGTON

730 Massachusetts Ave. Arlington, MA 02476 781-316-3012

#### ARLINGTON CONSERVATION COMMISSION

### **CERTIFIED MAIL DELIVERY**

October 19, 2018

Nick Grove Department of Conservation and Recreation 251 Causeway Street, Suite 700 Boston, MA 02114

### RE: Order of Conditions for DCR Mystic River Outfall Maintenance - DEP File Number 091-0302

Enclosed is the original Order of Conditions permit for the above-referenced project, issued pursuant to the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8.

No work on the project may begin until ALL of the following requirements have been satisfied:

Ц	You have signed and returned to this office the attached Certificate of Understanding.
	The 10-business day appeal period has elapsed. The appeal period begins on the date of issuance of the Order.
	You have had the original Order recorded at the Middlesex South Registry of Deeds and the receipt forwarded to the Conservation Commission. The Order is not valid until properly recorded.
	The DEP file number sign has been erected at the project entrance (as specified in the General Conditions).
	You have read and understand the enclosed Order of Conditions. Compliance with all conditions and the approved plans is the responsibility of the applicant. Deviation from the approved plans may result in a stop work order or further enforcement, as well as the inability to obtain a Certificate of Compliance.
	You have conducted a "pre-construction site visit" with the Conservation Administrator, installed erosion controls, submitted in writing the names and telephone numbers of the parties responsible for the work (such as the general contractor, erosion control monitor, field engineer, and wetland scientist), and submitted a schedule of construction, as applicable.
	Please note that there may be other specific requirements in your Order of Conditions, which may be required for your site. Please be sure to read the whole Order. It is your responsibility to comply with all aspects of the Order.

20 of 244

**DEP File Number 91-0292** page 2 Upon completion of the project, you must submit: ☐ A "Request for a Certificate of Compliance" (state WPA form 8a) and ☐ An engineer-stamped and signed "as-built plan" to the Conservation Commission stating that all conditions have been satisfactorily completed in compliance with the plans and the Order. Once received, your Certificate of Compliance must be recorded at the Middlesex South Registry of Deeds, and the receipt sent to the Conservation Office (as per the Wetlands Protection Regulations). Please contact our office with any questions at 781-316-3012 or email esullivan@town.arlington.ma.us. Thank you, Environmental Planner & Conservation Agent Enclosures: Order of Conditions Certificate of Understanding cc: file, DEP-NERO, Matt Devlin (AECOM)

Date

Received by



# WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File # 091-0302

eDEP Transaction #

Arlington City/Town

Please note: this form has been modified with added space to accommodate the Registry of Deeds Requirements

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



c. Organization

e. City/Town

5. Project Location:

a. Street Address

Maps 48 and 64

d. Mailing Address

Mystic River State Reservation

Latitude and Longitude, if known:

c. Assessors Map/Plat Number

1. From: Arlington Conservation Commission	on	
<ol><li>This issuance is for (check one):</li></ol>	a. Order of Conditions b. Amended	d Order of Conditions
з. То: Applicant:		
Nick	Grove	
a. First Name	b. Last Name	
Dept of Conservation and R	Recreation	
c. Organization		
251 Causeway Street, Suite	e 700	
d. Mailing Address		
Boston	MA	02114
e. City/Town	f. State	g. Zip Code
4. Property Owner (if different fro	om applicant):	
a. First Name	b. Last Name	

f. State

Arlington

42d25m19.1778s

d. Latitude

b. City/Town

d. Parcel/Lot Number

Map 48 Lot 8-2 and Map 64 Lot 3-8

g. Zip Code

-71d8m43.4256s

e. Longitude



# WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File#
091-0302
eDEP Transaction #
Arlington
City/Town

# A. General Information (cont.)

6.	Property recorded at the Registry of Deeds for (attach additional information if more than one parcel): Middlesex								
	a. County					b. Certificate Num	iber (i	f regis	tered land)
	c. Book	09/20/2018			10/0	d. Page 1/2018			10/19/2018
7.	Dates:	a. Date Notice of Int	tent File	ed		e Public Hearing C	losed		c. Date of Issuance
8. Final Approved Plans and Other Documents (attach additional as needed):					plar	ord	locument reference		
	a. Plan Title	onditions & Site I	repa	ratio	on Plan, Ex	cavation Plan,	Rest	orati	on Plan
	AECOM					Randall Twiss	DE		
	b. Prepared	Bv	<u> </u>			c. Signed and Sta			
	09/17/201	=				1"=60', 1"=10',		~,	
	d. Final Revi					e. Scale			
	f. Additional	Plan or Document Tit	le					 !	g. Date
В.	Finding	gs							
1.	Findings p	oursuant to the Ma	assac	hus	etts Wetlar	nds Protection A	Act:		
	provided in the areas	n this application	and poropos	res sed	ented at the is significa	e public hearing	, this	s Cor	d on the information mmission finds that sts of the Wetlands
a.	□ Public	Water Supply	b.		Land Conf	aining Shellfish	C.		Prevention of lution
d.	☑ Private	e Water Supply	e.		Fisheries		f.		Protection of dlife Habitat
g.	⊠ Groun	dwater Supply	h.	$\boxtimes$	Storm Dar	nage Preventio	n i.	$\boxtimes$	Flood Control
2.	This Comn	nission hereby find	ds the	pro	ject, as pro	oosed, is: (checl	k one	of th	ne following boxes)
Αp	<b>proved</b> sub	oject to:							
a.	standards be perform General C that the fo	ned in accordance	etland e with ny othe s mod	ds re the er s ify o	egulations. Notice of pecial cond or differ from	This Commissi ntent reference litions attached n the plans, spe	on or d ab to the	rders ove, iis Oi atior	that all work shall the following rder. To the extent as, or other



# WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #
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City/Town

Provided by MassDEP:

# B. Findings (cont.)

υe	enied decause:
b.	the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. A description of the performance standards which the proposed work cannot meet is attached to this Order.
c.	the information submitted by the applicant is not sufficient to describe the site, the work

the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act.

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).

3. Buffer Zone Impacts: Shortest distance between limit of project	
disturbance and the wetland resource area specified in 310 CMR 10.02(1)	)(a) a. linear feet

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

Resource Area		Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement	
4.	⊠ Bank	198 a. linear feet	190 b. linear feet	0 c. linear feet	0 d. linear feet	
5.	Bordering	a. micai icci	b. inical lect	o. iiilear leet	d. iiilear leet	
	Vegetated Wetland	a. square feet	b. square feet	c. square feet	d. square feet	
6.		134	134	0	0	
	Waterbodies and Waterways	a. square feet	b. square feet	c. square feet	d. square feet	
	·	e. c/y dredged	f. c/y dredged			
7.	□ Bordering Land	0	0	0	0	
	Subject to Flooding	a. square feet	b. square feet	c. square feet	d. square feet	
	-	0	0	0	0	
	Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet	
8. Isolated Land						
	Subject to Flooding	a. square feet	b. square feet			
	Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet	
		3,208	3, 208	0. 000.0	040.0 1001	
9.		a. total sq. feet	b. total sq. feet			
		3,208	3, 208			
	Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet	
	Sq ft between 100-	0	0	•	·	
	200 ft	g. square feet	h. square feet	i. square feet	j. square feet	



# **WPA Form 5 – Order of Conditions**

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Provided by MassDEP:
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# B. Findings (cont.)

Co	astal Resource Area Impa	cts: Check all tha	at apply below.	(For Approvals O	nly)
		Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10.	☐ Designated Port Areas	Indicate size un	der Land Unde	r the Ocean, belo	w
11.	Land Under the				
	Ocean	a. square feet	b. square feet		
		c. c/y dredged	d. c/y dredged		
12.	☐ Barrier Beaches	Indicate size un below	der Coastal Be	aches and/or Coa	stal Dunes
13.	Coastal Beaches			cu yd	cu yd
		a. square feet	b. square feet	c. nourishment	d. nourishment
14.	☐ Coastal Dunes	a. square feet	b. square feet	cu yd c. nourishment	cu yd d. nourishment
15.	☐ Coastal Banks	a. linear feet	b. linear feet		
16.	☐ Rocky Intertidal	a. Illical lect	b. iiiicai icci		
10.	Shores	a. square feet	b. square feet		
17.	☐ Salt Marshes	a. square feet	b. square feet	c. square feet	d. square feet
18.	Land Under Salt			,	,
	Ponds	a. square feet	b. square feet		
		c. c/y dredged	d. c/y dredged		
19.	☐ Land Containing Shellfish	a. square feet	b. square feet	c. square feet	d. square feet
20.	Fish Runs		or inland Land	nks, Inland Bank, Under Waterbodi	
		a. c/y dredged	b. c/y dredged	•	
21.	☐ Land Subject to	an ary arrange a	<b>,</b>		
	Coastal Storm Flowage	a. square feet	b. square feet		
22.	☐ Riverfront Area	a. total sq. feet	b. total sq. feet		
	Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet
	Sq ft between 100-	•		•	
	200 ft	g. square feet	h. square feet	i. square feet	j. square feet



**B. Findings** (cont.)

# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

# WPA Form 5 – Order of Conditions

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Provided	l by	MassDEP:	

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* #23. If the project is for the purpose of	2
restoring or	
enhancing a	
wetland	_
resource area	24
in addition to	
the square	
footage that	
has been	_
entered in	·
Section B.5.c	
(BVW) or	_
B.17.c (Salt	T
Marsh) above,	1
please enter	-

the additional

23.	Restoration/Enhancement *:	
	a. square feet of BVW	b. square feet of salt marsh
24.	Stream Crossing(s):	
	a. number of new stream crossings	b. number of replacement stream crossings

### C. General Conditions Under Massachusetts Wetlands Protection Act

#### The following conditions are only applicable to Approved projects.

- 1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- amount here. 2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
  - 3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
  - 4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
    - a. The work is a maintenance dredging project as provided for in the Act; or
    - b. The time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
    - c. If the work is for a Test Project, this Order of Conditions shall be valid for no more than one year.
  - 5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order. An Order of Conditions for a Test Project may be extended for one additional year only upon written application by the applicant, subject to the provisions of 310 CMR 10.05(11)(f).
  - 6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on 10/19/2021 unless extended in writing by the Department.
  - 7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.



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Provided by MassDEP:

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#### C. General Conditions Under Massachusetts Wetlands Protection Act

- 8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
- 9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
- 10. A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]

"File Number

091-0302"

- 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
- 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
- 13. The work shall conform to the plans and special conditions referenced in this order.
- 14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
- 15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
- 16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.



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# C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
- 18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

19.	The wo	rk associated with this Order (the "Project")
	(1)	is subject to the Massachusetts Stormwater Standards
	(2)	is NOT subject to the Massachusetts Stormwater Standards

# If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

*iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;



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### C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

*iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;

v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following:
  - i.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and
  - ii.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



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Provided by MassDEP:

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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
  - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
  - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
  - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- I) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

cument):					
e Attached Fir	dings and	Condition	ıs		 
		*		 	 

20. For Test Projects subject to 310 CMR 10.05(11), the applicant shall also implement the monitoring plan and the restoration plan submitted with the Notice of Intent. If the conservation commission or Department determines that the Test Project threatens the public health, safety or the environment, the applicant shall implement the removal plan submitted with the Notice of Intent or modify the project as directed by the conservation commission or the Department.



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# D. Findings Under Municipal Wetlands Bylaw or Ordinance

1.	ls a	municipal wetlands bylaw or ordinance applicab	ole?	$\bowtie$	Yes	L	No		
2.	The	Arlington Conservation Commission	here	eby	finds (	che	ck one	that applies	s):
	a.	that the proposed work cannot be conditione municipal ordinance or bylaw, specifically:	ed to	me	et the	stan	dards s	et forth in a	a
		1. Municipal Ordinance or Bylaw						2. Citation	
		Therefore, work on this project may not go forward Intent is submitted which provides measures who standards, and a final Order of Conditions is issued.	nich a	are a					of
	b. It that the following additional conditions are necessary to corordinance or bylaw:						nply with a municipal		
		Arlington Bylaw for Wetlands Protection  1. Municipal Ordinance or Bylaw						Title V, Ar	rt 8
3.	con con	Commission orders that all work shall be performations and with the Notice of Intent referenced a ditions modify or differ from the plans, specification Notice of Intent, the conditions shall control.	abov	e. T	o the e	exte	nt that t	he following	g
	The mor	e special conditions relating to municipal ordinance re space for additional conditions, attach a text do e attached Findings and Conditions				e as	follows	(if you nee	ed
	-								
		•							



# WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File # 091-0302

eDEP Transaction #

Arlington City/Town

# E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form.

This Order must be signed by a majority of the Conservation Commission.

10/19/2018

1. Date of Issuance

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed of hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant

Signatures by hand delivery on

Date

by certified mail, return receipt requested, on

10/19/2018 Date

# F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



# WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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# **G. Recording Information**

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Arlington		
Conservation Commission		
Detach on dotted line, have stamped by the Commission.	ne Registry of Deeds and s	ubmit to the Conservation
То:		
Arlington		
Conservation Commission		
Please be advised that the Order of Cond	ditions for the Project at:	
Mystic River State Reservation	·	
Project Location	MassDEP File Nun	nber
Has been recorded at the Registry of Dee	eds of:	
County	Book	Page
for: Property Owner		
and has been noted in the chain of title or	f the affected property in:	•
Book	Page	
In accordance with the Order of Condition	ns issued on:	
Date	,	
If recorded land, the instrument number in	dentifying this transaction i	is:
Instrument Number		
If registered land, the document number i	identifying this transaction	is:
Document Number		
Signature of Applicant	**************************************	



Important:
When filling
out forms on
the computer,
use only the
tab key to
move your
cursor - do
not use the
return key.

# Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

# Request for Departmental Action Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:
Provided by DEP

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Λ	$\square \land \land$	IIACT	Intol	matian
М.	17CU	ucsi	HHU	mation

a. Street Address	b. City/Town, Zip	
c. Check number	d. Fee amount	
Person or party making request (if appro	priate, name the citizen group's repres	sentative):
Name		
Mailing Address		
City/Town	State	Zip Code
Phone Number	Fax Number (if applicable)	
(Form 4B), Order of Conditions (Form 5) Non-Significance (Form 6)):	, Restoration Order of Conditions (For	m 5A), or Notice of
Name		
Name Mailing Address		
	State	Zip Code
Mailing Address	State Fax Number (if a	•
Mailing Address  City/Town		•
Mailing Address  City/Town  Phone Number		•
Mailing Address  City/Town  Phone Number		•
Mailing Address  City/Town  Phone Number  DEP File Number:	Fax Number (if a	•
Mailing Address  City/Town  Phone Number  DEP File Number:  Instructions  When the Departmental action request is	Fax Number (if a	applicable)
Mailing Address  City/Town  Phone Number  DEP File Number:  Instructions  When the Departmental action request is  Superseding Order of Conditions – F	Fax Number (if a second	applicable)

wpaform5.doc • rev. 4/22/2015



# Request for Departmental Action Fee Transmittal Form

DEP File Number:

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Instructions (cont.)

Send this form and check or money order, payable to the Commonwealth of Massachusetts, to:

Department of Environmental Protection Box 4062 Boston, MA 02211

- 2. On a separate sheet attached to this form, state clearly and concisely the objections to the Determination or Order which is being appealed. To the extent that the Determination or Order is based on a municipal bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.
- 3. Send a **copy** of this form and a **copy** of the check or money order with the Request for a Superseding Determination or Order by certified mail or hand delivery to the appropriate DEP Regional Office (see <a href="http://www.mass.gov/eea/agencies/massdep/about/contacts/">http://www.mass.gov/eea/agencies/massdep/about/contacts/</a>).
- 4. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

# ARLINGTON CONSERVATION COMMISSION ONS DCR MYSTIC STATE RESERVATION OUTFALLS DEP FILE NO. 091-0302

#### ORDER OF CONDITIONS

### **DOCUMENTS REVIEWED**

- 1. Notice of Intent for work at Mystic River State Reservation, Arlington, MA, prepared by AECOM., for the Applicant: Department of Conservation and Recreation, dated September 20, 2018.
- 2. Project Site Locus Map, prepared by AECOM, not dated.
- 3. Project Site Overview Map, prepared by AECOM, not dated.
- 4. FEMA National Flood hazard Layer FIRMette, prepared by AECOM, dated August 9, 2018.
- 5. Outfall Photographic Log, prepared by AECOM, dated April 18, 2018.
- 6. Site Plan and Project Details, prepared by AECOM, dated September 19, 2018.

#### PROCEDURAL SUMMARY

The Conservation Commission held a public hearing on the Notice of Intent on October 4, 2018. The Commission closed the hearing on October 4, 2018, deliberated and voted 6-0, with 1 member absent, to approve the Project with conditions under the Wetlands Protection Act (the "Act") and voted 6-0, with 1 member absent, to approve the Project with conditions under the Arlington Wetlands Protection Bylaw (the "Bylaw").

# FINDINGS OF FACT AND LAW UNDER ARLINGTON WETLANDS PROTECTION BYLAW AND WETLANDS PROTECTION ACT

- A. The Project as approved is a "Limited Project" under the 310 CMR 10.53(3)(k). The project involves the maintenance and replacement of 12 outfalls using methods of minimal disturbance to resource areas along the Lower Mystic Lake and Mystic River. Methods include replacement of existing pipes from outfalls back to street connections, replacement of headwalls with precast concrete wing wall sections, flared end section installation, generally cleaning of debris, rip-rap stone replacement, and removal of broken pipe and headwall pieces from the bank of the Mystic River. The new outfall pipes will be approximately 12-inch diameter reinforced concrete pipe. Nine of the 12 outfalls will be replaced with pre-cast concrete wing walls with stone rip-rap bedding underlined with geo-fabric. Three of the 12 outfalls will be replaced with flared end sections and rip-rap stone bedding.
- B. The Project site contains approximately 27,358 sf of temporary impact and approximately 3,208 sf of permanent impact to the Riverfront Area, Approximately 198 lf of bank will be permanently impacted and approximately 134 sf of land under waterbodies and waterways will be permanently impacted.

#### ARLINGTON CONSERVATION COMMISSION

ORDER OF CONDITIONS

#### DCR MYSTIC STATE RESERVATION OUTFALLS DEP FILE NO. 091-0302

- C. The following Resource Areas are present on the site or within 200 feet of the lot lines: perennial stream, Bordering Vegetated Wetland ("BVW"), Bank to stream and BVW, Adjacent Upland Resource Area ("AURA") (Bylaw) and Buffer Zone (Act) to Bank and BVW, and Riverfront Area. The Commission finds accurate the delineation of Resource Areas shown on the approved Site Plan.
- D. Because work proposed does not increase impervious surface, the Commission finds the project meets the performance standards for work in the AURA. The Commission also finds that this project qualifies as a "Limited Project" under the 310 CMR 10.53(3)(k)
- E. The proposal also includes vegetation replanting and seeding, tree removal of 12 trees and replacement of 24 trees, and invasive species removal and maintenance.
- F. Based on the testimony at the public hearing, and review of the application materials and the documents listed above submitted during the public hearing, the Commission concludes that the proposed Project will not alter Resource Areas under the Act and Bylaw, the work as conditioned will not have significant or cumulative effects upon the interests of the Wetlands Protection Act or the Resource Area values of the Arlington Wetlands Bylaw when the conditions imposed are implemented to protect the Resource Area values. With the conditions contained herein, the Project meets the performance standards in the Bylaw Regulations and state Wetlands Regulations, 310 CMR 10.00.

#### Additional Special Conditions

In addition to the General Conditions (numbered 1-20 above), the Project is subject to the following Additional Special Conditions (under both the Act and Bylaw):

- 21. Work permitted by this Order and Permit shall conform to the Notice of Intent, the approved plans and documents (listed above), and oral representations (as recorded in hearing minutes) submitted or made by the Applicant and the Applicant's agents or representatives, as well as any plans and other data, information or representations submitted per these Conditions and approved by the Commission.
- · 22. The provisions of this Order and Permit shall apply to and be binding upon the Applicant and Applicant's assignees, tenants, property management company, employees, contractors, and agents.
- 23. No work shall be started under this Order until: (a) all other required permits or approvals have been obtained and (b) the appeal period of ten (10) business days from the date of issue of this Order has expired without any appeal being filed and (c) this Order has been recorded in the Registry of Deeds. No work shall be started under this Permit until all other necessary permits or approvals have been obtained.

#### ARLINGTON CONSERVATION COMMISSION

#### ORDER OF CONDITIONS

DCR MYSTIC STATE RESERVATION OUTFALLS DEP FILE NO. 091-0302

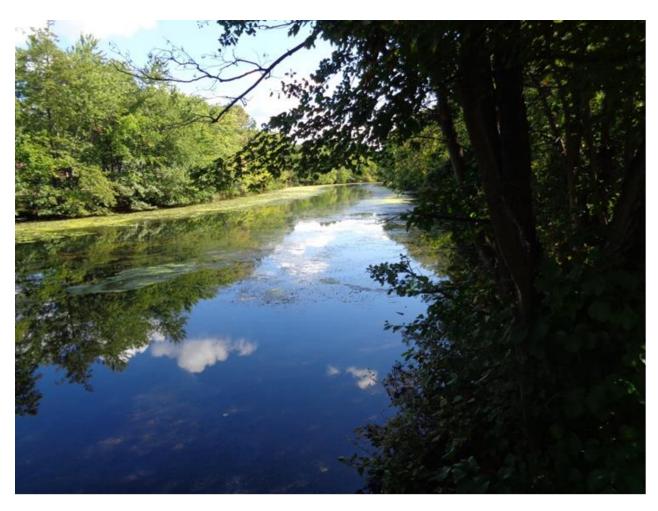
- 24. The Applicant shall ensure that a copy of this Order of Conditions and Permit for work, with any referenced plans, is available on site at all times, and that contractors, site managers, foremen, and sub-contractors understand its provisions.
- 25. Prior to starting work, the Applicant shall submit to the Commission the names and 24-hour phone numbers of project managers or the persons responsible for site work or mitigation.
- 26. Before work begins, erosion and sediment controls shall be installed at the limits of the work area. These will include a silt fence and 12 inch straw or silt wattle around the entire work area (haybales are not allowed and silt socks are preferred).
- 27. The contractor shall contact the Conservation Agent (<a href="mailto:concomm@town.arlington.ma.us">concomm@town.arlington.ma.us</a>; 781-316-3012) to arrange for a pre-construction meeting with the on-site project manager to walk through the Order of Conditions, confirm the wash out location, and walk the site to confirm the installation and placement of erosion controls prior to the start of any grading or construction work.
- 28. The contractor shall provide written Notice of the work start date to the Conservation Agent 48 hours prior to start of work.
- 29. All dumpsters must be covered at the end of each work day, and no dumpsters will be allowed overnight within the 100 foot Buffer Zone or Adjacent Upland Resource Areas ("AURA") or other Resource Areas.
- 30. No uncovered stockpiling of materials shall be permitted overnight within 100 feet of any waterway or water body. All stockpiled material shall be adequately covered at all times when not in use and stored in the holding area between the river bank and Mystic Valley Parkway. Erosion control measures including silt socks, silt fences, 12 inch straw, or silt wattle shall be installed surrounding the stockpile.
- 31. Areas that are disturbed by construction and access activities shall as soon as possible be brought to final grade and reseeded and restabilized, and shall be done so prior to the removal of the erosion control barrier.
- 32. Arrangements shall be made for any rinsing of tools, equipment, etc. associated with on—site mixing or use of concrete or other materials such that the waste water is disposed of in the concrete wash out station-at least 50 feet from the resource area. In no case may waste water be discharged into or onto Resource Areas on or adjacent to the site. In no case may waste water be placed in stormdrains. Any spillage of materials shall be cleaned up promptly.
- 33. Any dirt or debris spilled or tracked onto any paved streets shall be swept up and removed daily.
- 34. No heavy equipment may be stored overnight within 50 feet of the wetland and no refueling or maintenance of machinery shall be allowed within the 100-foot Buffer Zone, 200-foot Resource Area, and Adjacent Upland Resource Area or within any Resource Area.

- 35. The Commission, its employees and its agents shall have the right of entry onto the site to inspect for compliance with the terms of this Order of Conditions and Permit until a Certificate of Compliance has been issued.
- 36. When requesting a Certificate of Compliance for this Order of Conditions, the Applicant must submit a written statement from a Massachusetts professional engineer, registered land surveyor, or registered landscape architect certifying that the completed work complies with the plans referenced in this Order, or provide an as-built plan and statement describing any differences.
- 37. The Applicant shall specify dewatering methods. Any dewatering operations shall conform to the following:
  - (a) Notify the Conservation Commission that dewatering is required.
  - (b) Any catch basins, drains, and outfalls to be use in dewatering operations shall be clean out before operations begin.
  - (c) Any water discharged as part of any dewatering operation shall be passed through filters, on-site settling basins, settling tank trucks, or other devices to ensure that no observable sediments or pollutants are carried into the Resource Area, street, drain, or adjacent property.
  - (d) Measures shall be taken to ensure that no erosion or scouring shall occur on public or private property, or on the banks or bottoms of water bodies, as a result of dewatering operations.
- 38. The Applicant shall maintain plantings for three years, including invasive species management. Invasive species monitoring reports shall be submitted to the Conservation Committee annually for three consecutive years, due on November 1st of each consecutive year.
- 39. The Applicant shall protect all area trees per the Town Wetlands Protection Regulations, Section 24 Vegetation Removal and Replacement, protecting trees through securing (not nailing) 2x4 boards, between 6-8 feet in length, around tree base. The boards shall be installed vertically such that one end is installed directly into the ground.
- 40. The Applicant shall conduct daily street cleanings at the end of each work day.
- 41. The Applicant shall protect all adjacent catch basins using silt socks.
- 42. The Applicant shall conduct catch basin sump cleanings at the end of the project work period.
- 43. The Applicant shall complete the proposed work during low flow conditions only.
- 44. Pervious surfaces shown on the project plans shall be maintained and not be replaced by impervious surfaces. This shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.



## DCR Mystic River Outfall Maintenance Arlington, Massachusetts

DEP File Number 091-302



AECOM Environment ii

#### **Contents**

- 1. Copy of CoC Request Cover Letter
- 2. Wetland Protection Act Form 8A
- 3. Signed Affidavit of Project Compliance/Completion
- 4. Photo Log
- 5. As-Built Plan

AECOM Environment 1-1

#### 1. Copy of CoC Request Cover Letter



September 18, 2023

Ms. Susan Chapnick, Chair Arlington Conservation Commission 730 Massachusetts Avenue Arlington, MA 02476

Subject: Request for Certificate of Compliance, DEP File No. 091-302 DCR Mystic River Outfall Maintenance Project Arlington, Massachusetts

Dear Ms. Capnick,

On behalf of the Massachusetts Department of Conservation and Recreation (DCR), AECOM respectfully submits the enclosed Certificate of Compliance Request to the Arlington Conservation Commission regarding the reconstruction of the several stormwater outfalls along the Mystic River. Order of Conditions 091-302 authorized the reconstruction of 12 stormwater outfalls; however, upon further investigation it was determined that three of the outfalls were not owned by DCR. Accordingly, construction was completed on nine of the outfalls and the remaining three outfalls will not be reconstructed. Two outfalls were misidentified in the Notice of Intent, as outfall UNID-1 and 14628 were labeled as one another. The attached As-built plan depicts the correct outfall numbers. Table 1 depicts the status of the outfalls authorized for reconstruction.

**Table 1: Stormwater Outfall Reconstruction Status** 

Outfall ID	Repair/Proposed Work Activity	<u>Status</u>
14631	Flared-end with rip rap	Not reconstructed
14632	Wing wall/rip rap bedding	Complete
14625	Flared-end with rip rap	Complete
14636	Flared-end with rip rap	Not reconstructed
22776	Wing wall/rip rap bedding	Complete
UNID-1	Flared-end with rip rap	Not reconstructed
14628	Wing wall/rip rap bedding	Complete
14922	Wing wall/rip rap bedding	Complete
34494.1	Wing wall/rip rap bedding	Complete
14926	Wing wall/rip rap bedding	Complete
22200	Wing wall/rip rap bedding	Complete
14930	Wing wall/rip rap bedding	Complete

The following items are enclosed with this request:

- Copy of Form WPA 8A;
- Professional Engineer affidavit (referencing only the completed outfalls); and,
- \$200 COC request bylaw filing fee.

We understand that an on-site project compliance inspection may be scheduled in advance of the public hearing at which this COC Request will be considered. As AECOM will attend this site visit on behalf of the applicant, please contact Tom Keough at (978) 496-6517 with the hearing and site visit date.

Yours sincerely,

Thomas J. Keough Sr. Wetland Scientist

thomas.keough@aecom.com

cc: Department of Environmental Protection, Northeast Regional Office Thomas Valton, DCR

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#### 2. Wetland Protection Act Form 8A



### **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

091-302 Provided by DEP

#### A. Project Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor -

do not use the return key.





Upon completion 3 of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

1.	This request is being made by:		
	Priscilla Geigis, Massachusetts Department of	Conservation and Recreation	
	Name		
	10 Park Plaza, Suite 6620  Mailing Address		
	Boston	MA	02116
	City/Town	State	Zip Code
	617-626-4986		•
	Phone Number		
2.	This request is in reference to work regulated by	by a final Order of Conditions issu	ued to:
	Nick Grove, Massachusetts Department of Cor	servation and Recreation	
	Applicant		
	10/19/2018	091-302	
	Dated	DEP File Number	•
3.	The project site is located at:		
	Mystic River State Reservation	Arlington	
	Street Address	City/Town	
	Maps 48 and 64		& M 64 Lot 3-8
	Assessors Map/Plat Number	Parcel/Lot Number	er
4.	The final Order of Conditions was recorded at t	he Registry of Deeds for:	
	Massachusetts Department of Conservation ar	nd Recreation	
	Property Owner (if different)	id Noorodiion	
	Middlesex	73537	415
	County	Book	Page
	Certificate (if registered land)		
5.	This request is for certification that (check one)	:	
	the work regulated by the above-referenced	Order of Conditions has been sa	tisfactorily completed.
	the following portions of the work regulated		of Conditions have
	been satisfactorily completed (use addition Outfalls 14632, 14625, 22776, Unkown-1,		and 14020 word
COL	nstructed as authorized. No construction activies		
00.	iona de a danienzoa. No concinación denvice	took place at eatlane 1 1001, 11	000, 4114 1 1020
			P. J
	☐ the above-referenced Order of Conditions	nas lapsed and is theretore no lo	nger valid, and the

work regulated by it was never started.



#### **Massachusetts Department of Environmental Protection** Bureau of Resource Protection - Wetlands

WPA Form 8A - Request for Certificate of Compliance

091-302

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP

DEP File Number:

#### A. Project Information (cont.)

	of Conditions for this project, or the portion of the project subject to this request, contain any plans stamped by a registered professional engineer, architect, landscape nd surveyor?
⊠ Yes	If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.
☐ No	

#### **B. Submittal Requirements**

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-officefor-your-city-or-town.html).

AECOM Environment 3-1

3. Signed Affidavit of Project Compliance/Completion

#### Randall Twiss, P.E.

#### Registered Professional Engineer AECOM 250 Apollo Drive Chelmsford, MA, 01824 (617) 892-0080

August 8, 2023

Conservation Commission Town of Arlington 730 Massachusetts Avenue Arlington, MA 02476

RE: DEP 91-0302, Engineer Certification of Order of Conditions, DCR Mystic River Outfall Maintenance Project, DCR - Nick Grove, 190 Arlington Street, Acton, MA 01920.

Dear Commissioners:

The limited site clearing, the replacement of outfall structures, general debris cleanup, rip-rap slope armoring, broken pipe repair/replacement, revegetation (plantings and seeding) and stabilized was completed on the Mystic Valley Parkway south of Lower Mystic Lake.

Enclosed is an "As-Built" plan showing the completed work as constructed dated May 23, 2023.

This Certification is provided as part of the Request for Certificate of Compliance, WPA Form8A:

I hereby Certify, to the best of my professional knowledge, the project work was completed in compliance with the Order of Condition (issuance date of October 19, 2018) and stormwater infrastructure repairs, grading and landscaping within portions of the project subject to the Conservation's compliance were built in substantial compliance with the Mystic Valley Parkway Outfall Restoration Project – NOI Plan Set prepared for DCR dated September 19, 2018.

RANDALL M

Sincerely,

Randall Twiss, PE

ell Juiss

cc: DCR

AECOM Environment

#### 4. Photo Log

#### PHOTOGRAPHIC LOG

**Client Name:** 

Massachusetts Department of Conservation and Recreation

Photo No.

**Date:** 9/5/2023

Outfall 14632:

Looking East at the new headwall.

**Site Location:**Stormwater Support – Arlington DCR Outfalls

**Project No.** 60687346



Photo No.

Date: 9/5/2023

Outfall 14625:

Looking southwest. Close up view of the new flared end.



PHOTOGRAPHIC LOG

**Client Name:** 

Massachusetts Department of Conservation and Recreation

**Date:** 9/5/2023

Outfall 22776:

Photo No.

View of new headwall

Site Location:

Stormwater Support – Arlington DCR Outfalls

**Project No.** 60687346



Photo No. Date: 9/5/2023

Outfall 14628 (identified in NOI as Unknown-1):

View of new headwall.



#### **PHOTOGRAPHIC LOG**

**Client Name:** 

Photo No.

Massachusetts Department of Conservation and Recreation

**Date:** 9/5/2023

Outfall 14922:

View of new headwall.

**Site Location:**Stormwater Support – Arlington DCR Outfalls

**Project No.** 60687346



Photo No.

**Date:** 9/5/2023

Outfall 34494.1:

View of new headwall.



#### **PHOTOGRAPHIC LOG**

**Client Name:** 

Massachusetts Department of Conservation and Recreation

Photo No.

**Date:** 9/5/2023

Outfall 14926:

View of new headwall.

**Site Location:**Stormwater Support – Arlington DCR Outfalls

**Project No.** 60687346



Photo No.

**Date:** 9/5/2023

Outfall 22200:

View of new headwall.



PHOTOGRAPHIC LOG

Client Name:

Massachusetts Department of Conservation and Recreation

**Photo No. Date:** 9 /5/2023

Outfall 14930:

Outfall discharge point is buried in the slope.

**Site Location:**Stormwater Support – Arlington DCR Outfalls

**Project No.** 60687346



AECOM Environment

#### 5. As-Built Plan

# MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION

MYSTIC VALLEY PARKWAY **OUTFALL RESTORATION PROJECT** 

	A3-DUIL1			
STATE	FED. AID PROJ. NO.		SHEET NO.	TOTAL SHEETS
MA	NOT APPLICABLE		1	18
	CONTRACT NO.	P17	7-2724->	(2A

TITLE SHEET

MYSTIC VALLEY PARKWAY OUTFALL RESTORATION PROJECT

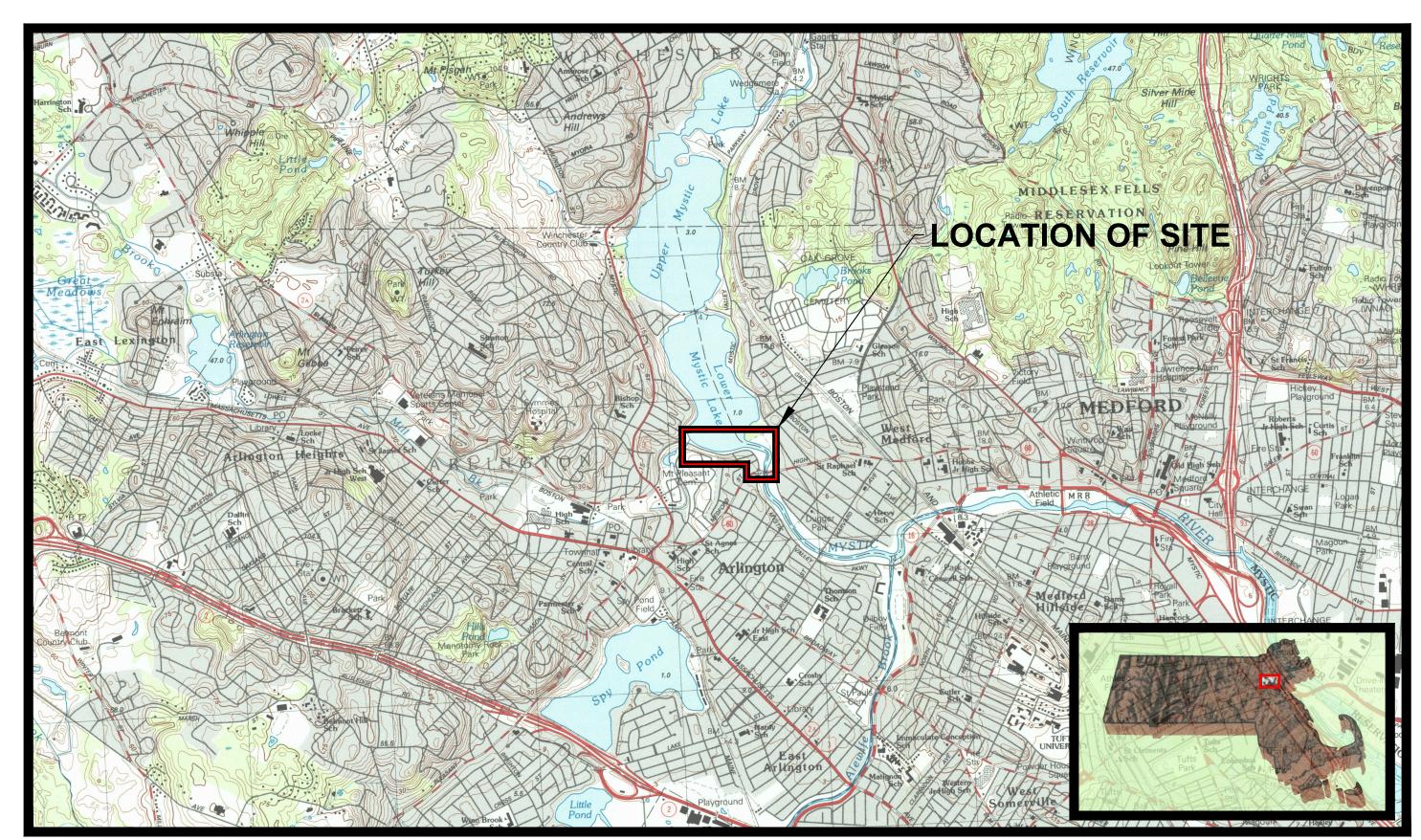
IN THE TOWN OF

ARLINGTON MIDDLESEX COUNTY

CONTRACT NO. P17-2724-X2A

# AS-BUILT

	DRAWING INDEX
SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	LEGEND & GENERAL NOTES
3	SITE LOCATION PLAN
4	EXISTING CONDITIONS & SITE PREPARATION PLAN (SHEET 1 OF 3)
5	EXISTING CONDITIONS & SITE PREPARATION PLAN (SHEET 2 OF 3)
6	EXISTING CONDITIONS & SITE PREPARATION PLAN (SHEET 3 OF 3)
7	EXCAVATION PLAN (SHEET 1 OF 3)
8	EXCAVATION PLAN (SHEET 2 OF 3)
9	EXCAVATION PLAN (SHEET 3 OF 3)
10	RESTORATION PLAN (SHEET 1 OF 3)
11	RESTORATION PLAN (SHEET 2 OF 3)
12	RESTORATION PLAN (SHEET 3 OF 3)
13	RESTORATION CROSS SECTIONS (SHEET 1 OF 3)
14	RESTORATION CROSS SECTIONS (SHEET 2 OF 3)
15	RESTORATION CROSS SECTIONS (SHEET 3 OF 3)
16	SITE PREPARATION & EROSION CONTROL DETAILS
17	RESTORATION DETAILS
18	PLANTING DETAILS



BOSTON NORTH, MASSACHUSETTS 7.5 X 15 MINUTE QUADRANGLE SOURCE: USGS TOPOGRAPHIC, 1985

SITE LOCATION MAP NOT TO SCALE

**ENGINEER'S CERTIFICATION:** 

**ENGINEER'S** CERTIFICATION

AEC	COM
AECOM TECHNICAL SE	ERVICES, Inc.
250 Apollo Drive Chelmsford, Massac	hueatte
01824	iiusetts
T 978.905.2100	
F 978.905.2101	www.aecom.d

5/23/2023	AS-BUILT	RE
DATE	DESCRIPTION	RE
	<b>B</b> dcr Massachusetts	
REC	COMMENDED FOR APPROVAL	
140	andall Twiss	3/7/2

DATE CHIEF ENGINEER

DCR ADMINISTRATOR

THE UNDERSIGNED HEREBY CERTIFIES THIS PLAN TO BE AN APPROPRIATE REPRESENTATION OF THE AS-BUILT SITE GRADING AND SITE FEATURES.

## NO. SHEETS 2 | 18 CONTRACT NO. P17-2724-X2A

#### LEGEND & GENERAL NOTES

MYSTIC VALLEY PARKWAY **OUTFALL RESTORATION PROJECT** 

**AS-BUILT** 

FED. AID PROJ. NO.

NOT APPLICABLE

### CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL DEVELOP A WORK PLAN WHICH INCLUDES A CONSTRUCTION SEQUENCING AND STAGING PLAN, DEWATERING, EXCAVATION METHODS, AND TRAFFIC MANAGEMENT PLAN. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE WORK PLAN HAS BEEN APPROVED BY THE ENGINEER.

STATE

- 2. THE CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITIES TO AREAS DEFINED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PRESERVE LAND RESOURCES WITHIN THE PROJECT SITE BOUNDARIES AND OUTSIDE LIMITS OF THE WORK AS MAY BE AFFECTED BY THE WORK OF THIS CONTRACT IN THEIR PRESENT CONDITION, OR RESTORE THOSE AFFECTED TO A CONDITION AFTER COMPLETION OF CONSTRUCTION THAT WILL APPEAR TO BE NATURAL.
- THE CONTRACTOR SHALL RESTORE TREES OR LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OR OPERATIONS AS NEARLY AS POSSIBLE TO ORIGINAL CONDITION. THE CONTRACTOR SHALL NOT DEFACE, INJURE OR DESTROY TREES OR SHRUBS, NOR REMOVE OR CUT THEM WITHOUT WRITTEN PERMISSION FROM DCR. THE CONTRACTOR SHALL PROTECT MONUMENTS AND MARKERS AT ALL TIMES.

4. THE CONTRACTOR SHALL NOT POLLUTE WATERWAYS. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE

FEDERAL, STATE, AND LOCAL LAWS CONCERNING POLLUTION OF RIVERS AND STREAMS. THE CONTRACTOR

- SHALL PERFORM WORK UNDER THIS CONTRACT IN SUCH A MANNER THAT OBJECTIONABLE CONDITIONS WILL NOT BE CREATED ON OR ADJACENT TO PROJECT SITE AREAS. 5. THE CONTRACTOR SHALL MAINTAIN ACCESS AREAS AND OTHER WORK AREAS WITHIN OR BEYOND THE PROJECT SITE BOUNDARIES FREE FROM DUST WHICH WOULD CAUSE A HAZARD OR NUISANCE TO OTHERS.
- THE CONTRACTOR SHALL PERFORM DUST CONTROL AS THE WORK PROCEEDS AND WHENEVER A NUISANCE OR HAZARD OCCURS. 6. THE CONTRACTOR SHALL PROVIDE METHODS DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF NOT TO ALLOW SILT OR DEBRIS TO ENTER EXISTING DRAINAGE FACILITIES OR CREATE NUISANCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS

- 7. THE CONTRACTOR SHALL OBLITERATE SIGNS OF TEMPORARY CONSTRUCTION FACILITIES SUCH AS ROADS, WORK AREAS, STRUCTURES, STOCKPILES OF EXCESS OR WASTE MATERIALS, OR ANY OTHER VESTIGES OF CONSTRUCTION CAUSED BY THE CONTRACTOR UPON PROJECT COMPLETION.
- 8. THE CONTRACTOR SHALL MAINTAIN FACILITIES CONSTRUCTED, AS APPLICABLE, FOR POLLUTION CONTROL AS LONG AS THE OPERATIONS CREATING THE PARTICULAR POLLUTANT ARE BEING CARRIED OUT, OR UNTIL THE MATERIAL CONCERNED HAS BECOME STABILIZED TO THE EXTENT THAT POLLUTION IS NO LONGER CREATED.
- 9. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE WORK SO AS TO MINIMIZE DISTURBANCE OF MYSTIC VALLEY PARKWAY TRAFFIC.
- 10. THE CONTRACTOR SHALL OBTAIN ANY CONSTRUCTION-SPECIFIC PERMITS AND AUTHORIZATIONS REQUIRED FOR THE WORK, PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.

#### **EROSION CONTROL NOTES:**

DUE TO THE CONTRACTOR'S OPERATIONS.

- 1. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON DRAWINGS PRIOR TO START OF CONSTRUCTION OR AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE MEASURES ON A CONTINUAL BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS RESTORED AND BECOMES STABILIZED.
- 2. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN MASSACHUSETTS.
- 3. THE CONTRACTOR SHALL PROTECT ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE SUBJECT TO EROSION (EITHER NEWLY FILLED OR EXCAVATED), ALL AREAS USED FOR CONTRACTOR STAGING AND ALL TEMPORARY SOIL STOCKPILE AREAS WITH APPROPRIATE EROSION CONTROL MEASURES.
- 4. EROSION AND SEDIMENT CONTROLS WILL BE REVIEWED BY A QUALIFIED PERSON EMPLOYED BY DCR ONCE EVERY 7 DAYS AND AFTER STORM EVENTS LARGER THAN 0.5 INCHES OF RAIN IN 24-HOURS. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING OR ADDING EROSION AND SEDIMENT CONTROL MEASURES AS DIRECTED BY THE DCR'S REPRESENTATIVE.
- 5. THE CONTRACTOR SHALL EXCAVATE SEDIMENT TRAPPED BEHIND THE BARRIERS WHEN THE SEDIMENT REACHES A DEPTH OF 6 INCHES. REMOVED SEDIMENT SHALL BE REUSED ON SITE AS DIRECTED BY ENGINEER.
- 6. EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL THE SEEDED AREA BECOMES AT LEAST 75% ESTABLISHED. THE CONTRACTOR SHALL REMOVE THESE CONTROLS AS DESCRIBED IN THE DRAWINGS.
- 7. THE CONTRACTOR SHALL APPLY MAINTENANCE MEASURES AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, THE CONTRACTOR SHALL VISUALLY INSPECT ALL INSTALLED EROSION CONTROL MEASURES AND REPAIR THOSE NECESSARY TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED. FOLLOWING THE FINAL PLANTING, THE CONTRACTOR SHALL INSPECT THE SITE EVERY THIRTY DAYS UNTIL THE PLANTS HAVE BEEN 95% ESTABLISHED. IF EROSION OCCURS BEFORE THE PLANTING HAS BECOME ESTABLISHED OR IF THERE ARE AREAS WHERE GROWTH IS INSUFFICIENT, THE CONTRACTOR SHALL REPLANT THESE AREAS AS REQUIRED, AND MAKE FOLLOW-UP INSPECTIONS.
- 8. FINAL PLANTING OF THE DISTURBED AREAS SHALL OCCUR FROM APRIL 15 AND JUNE1 AND SEPTEMBER 15 AND OCTOBER 15. IF FINAL PLANTING OF THE DISTURBED AREAS IS NOT COMPLETED DURING THIS PERIOD, THE CONTRACTOR SHALL GRADE AND SMOOTH THESE AREAS AND PLANT THEM WITH TEMPORARY SEEDING, IN ACCORDANCE WITH MA GUIDELINES OR AS DIRECTED BY DCR. FINAL PLANTING SHALL BE COMPLETED IN THE FOLLOWING PLANTING SEASON.
- THE CONTRACTOR SHALL PERFORM STREET SWEEPING ON MYSTIC VALLEY PARKWAY AS DIRECTED BY ENGINEER.

#### **INVASIVE SPECIES CONTROL:**

- 1. FOR A LIST OF INVASIVE AND OTHER UNACCEPTABLE PLANT SPECIES REFER TO THE MASSACHUSETTS INVASIVE PLANT ADVISORY GROUP (MIPAG) EVALUATION OF NON-NATIVE PLANT SPECIES FOR INVASIVENESS IN MASSACHUSETTS (APRIL 1, 2005). PLANT MATERIALS LISTED AS AN INVASIVE SPECIES OR UNACCEPTABLE PLANT SPECIES SHALL NOT BE USED ON THE PROJECT.
- SOIL MATERIAL BROUGHT TO THE SITE SHALL NOT BE FROM SOURCES KNOWN TO CONTAIN INVASIVE SPECIES.
- 3. SOIL EXCAVATED AND REMOVED THAT CONTAINS INVASIVE PLANT SEEDS OR FRAGMENTS SHOULD BE TREATED AS CONTAMINATED. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF THIS MATERIAL.

	LEGEND
LINETYPES	
	100 FT BUFFER ZONE
	200 FT RIVERFRONT AREA
	BANK LINE
	BITUMINOUS SIDEWALK
	COMPOST FILTER SOCKS
	EXCAVATED MATERIAL STOCKPILE
	EXISTING GRADE 1' CONTOURS
	EXISTING GRADE 5' CONTOURS
	EXISTING STORM DRAIN (PLAN VIEW)
	EXISTING STORM DRAIN (CROSS SECTION VIEW)
	FEMA 100 YEAR FLOODPLAIN (EL. 7, NAVD88)
	GRANITE CURB
	MYSTIC RIVER FLOW
	NON-WOVEN GEOTEXTILE
	PROPOSED GRADE 1' CONTOURS
	PROPOSED GRADE 5' CONTOURS
	PROPOSED STORM DRAIN (PLAN VIEW)
	PROPOSED STORM DRAIN (CROSS SECTION VIEW)
	SAW CUT LINE
	SILT CURTAIN
	STEEL VEHICULAR GUARDRAIL
	SURVEY EDGE OF WATER
xx	TEMPORARY CONSTRUCTION FENCE
HATCHES	
	AASHTO #57 STONE
6  06  6  06  6  6  6  6  6  6  6  6  6	GRAVEL BORROW
	JUTE MATTING
	PLANTING SUBSTRATE
	PROPOSED STAGING AREA
AMANA	RIPRAP
SYMBOLS	
B4−5 <u>△</u>	BANK FLAGS
•	BENCHMARK
⊞	CATCH BASIN
×	DESIGN CONTROL POINTS
EHH 🗆	ELECTRIC HANDHOLE
EMH (E)	ELECTRIC MANHOLE
X	EXISTING OUTFALL INVERT (PIPE FOUND)
	EXISTING OUTFALL INVERT (PIPE NOT FOUND)
	EXISTING SITE VEGETATION
	EXISTING SITE VEGETATION TO BE REMOVED
<u> </u>	HUB / MAG NAIL

LIGHT POLE

LPL-X

LEGEND

	<u>ABBREVIATIONS</u>
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
APPROX	APPROXIMATE
ВМ	BENCHMARK
СВ	CATCH BASIN
DCR	DEPARTMENT OF CONSERVATION AND RECREATION
DIA	DIAMETER
E	EASTING
EHH	ELECTRICAL HANDHOLE
EL OR ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
FED	FEDERAL
FEMA	FEDERAL EMERGENCY MANAGEMENT ACT
FES	FLARED END SECTION
FT	FEET
H:V	HORIZONTAL:VERTICAL
HOR	HORIZONTAL
IN	INCH
INV	INVERT
LPL	LIGHTPOLE
MA	MASSACHUSSETS
MASSDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NAVD88	NORTH AMERICAN VERTICAL DATUM, 1988
NO	NUMBER
NTS	NOT TO SCALE
OD	OUTER DIAMETER
OF	OUTFALL
OZ/SY	OUNCES PER SQUARE YARD
PROJ	PROJECT
RCP	REINFORCED CONCRETE PIPE
SHT	SHEET
STA	STATION
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
VER	VERTICAL

## BOTH SIZE AND LOCATION, AND ARE INDICATED ON DRAWINGS TO GIVE THE BIDDERS A GENERAL IDEA OF

EXISTING CONDITIONS TO BE INVESTIGATED BY THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT BIDDERS WILL NOT RELY ON DRAWINGS FOR SUCH INFORMATION, BUT THAT EACH BIDDER SHALL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE RECORDS AND UTILITY COMPANIES AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 1-888-344-7233 AT LEAST 3 DAYS IN ADVANCE BUT NOT MORE THAN 10 DAYS PRIOR TO INITIATING CONSTRUCTION.

CONSTRUCTION DRAWINGS (DRAWINGS) ARE ONLY A COMPONENT OF THE CONTRACT DOCUMENTS FOR THE

REQUIREMENTS AND FOR PERFORMING ALL ACTIVITIES AS IDENTIFIED IN THE CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF ALL ENVIRONMENTAL PERMITS ISSUED FOR THIS

3. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION RELATED ACTIVITIES WITH THE COMMONWEALTH

4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PROPERTY LINES, VERTICAL DATUM, AND LOCATIONS

5. LOCATION OF ALL EXISTING UTILITIES AND SUBSURFACE STRUCTURES ARE CONSIDERED APPROXIMATE AS TO

OF UTILITIES, AND OTHER EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION ACTIVITIES.

OF MASSACHUSETTS DEPARTMENT OF CONSERVATION & RECREATION (DCR).

OUTFALL RESTORATION PROJECT ASSOCIATED WITH MYSTIC VALLEY PARKWAY STORMWATER MANAGEMENT

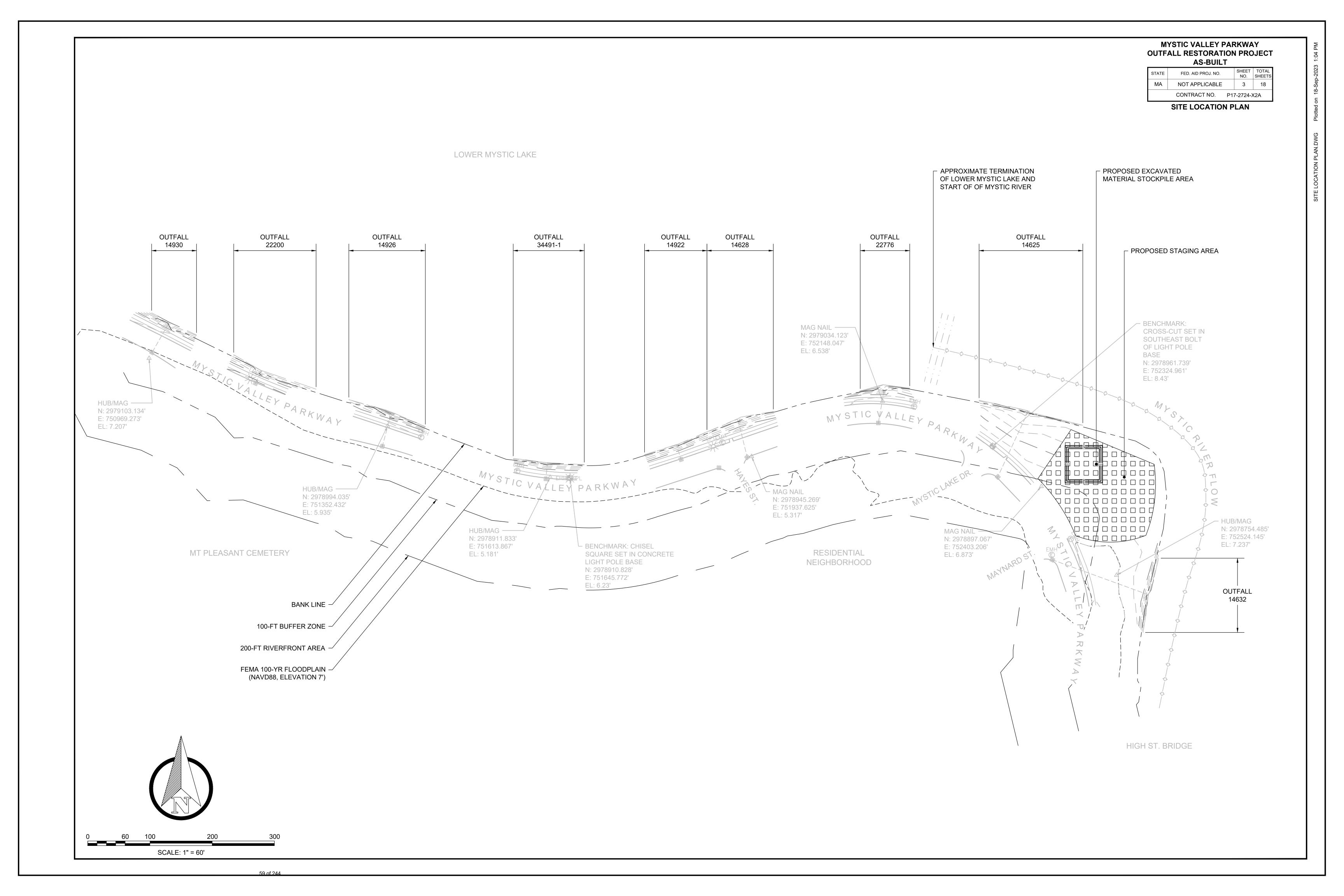
ALONG LOWER MYSTIC LAKE. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEDERAL, STATE, LOCAL AND OSHA

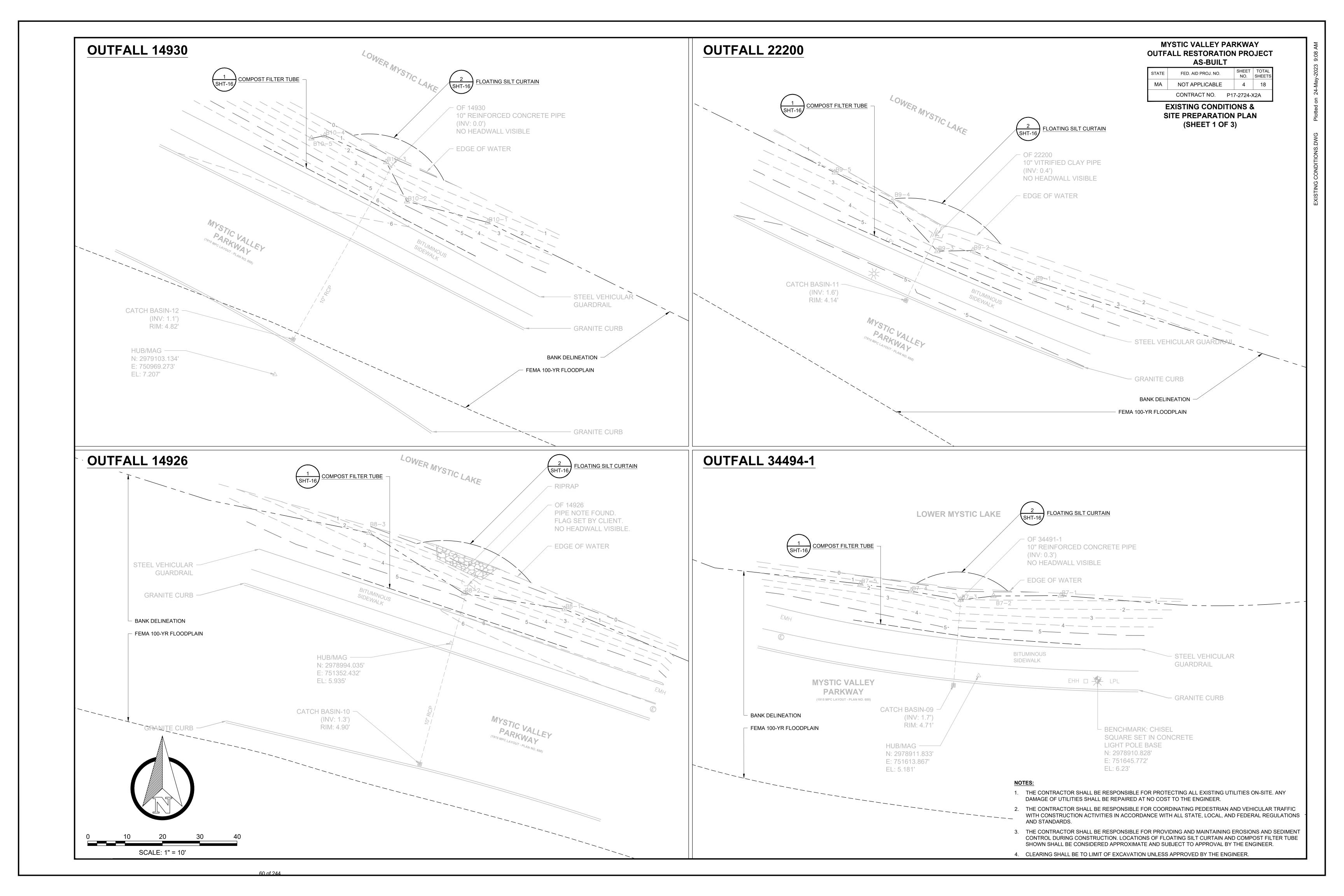
**GENERAL NOTES:** 

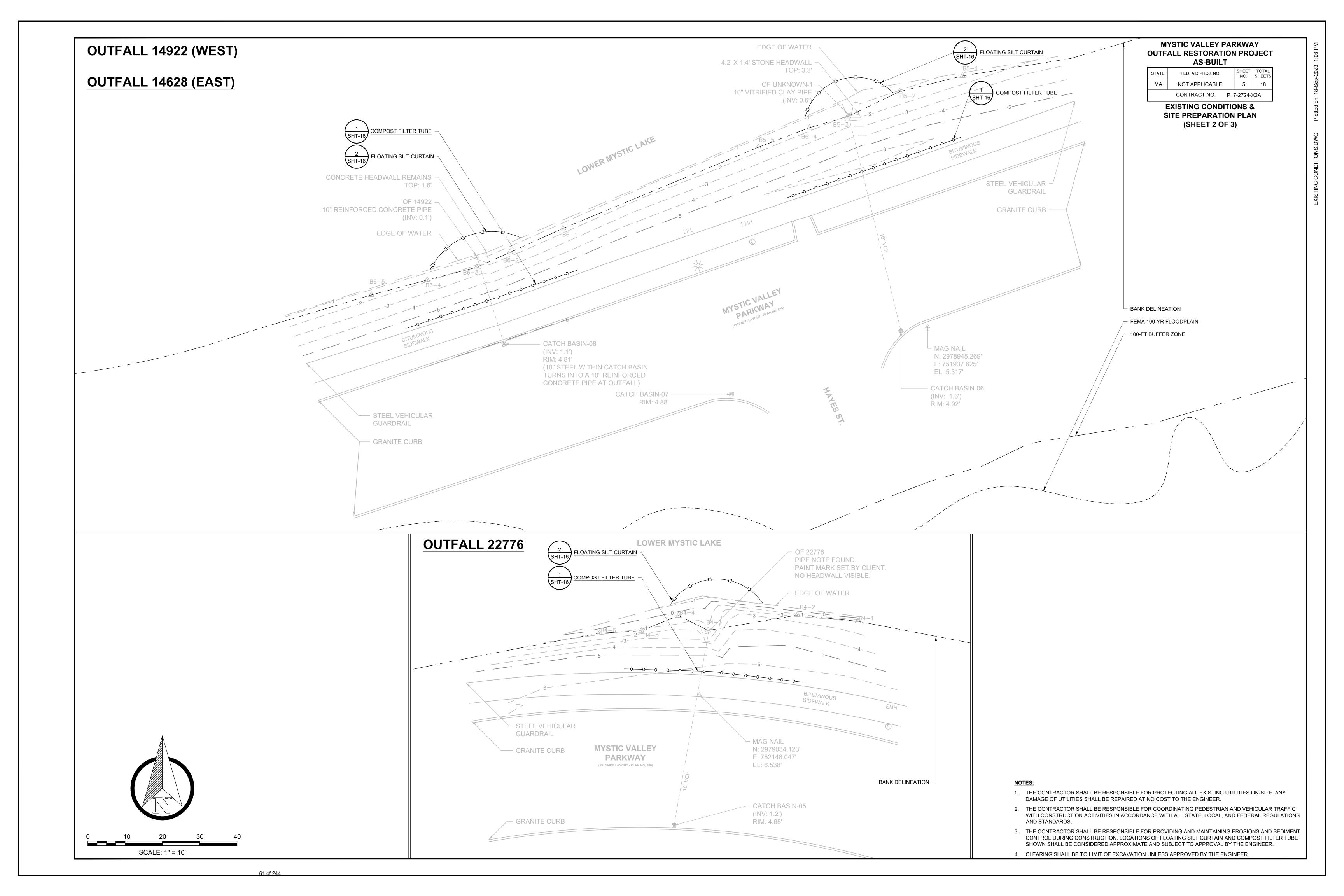
- 6. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ARLINGTON TO MARK ALL CITY/TOWN-OWNED WATER. SEWER. AND DRAINAGE UTILITIES PRIOR TO PERFORMING ANY INTRUSIVE ACTIVITIES.
- 7. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY. BY TEST PIT. THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONTRACTIBILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED.
- 8. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE OR REPAIR, UNLESS INDICATED OTHERWISE BY THE RESPECTIVE UTILITY OWNER.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY TEMPORARY UTILITIES REQUIRED TO FACILITATE CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO: ELECTRICITY, SANITARY FACILITIES, WATER, TELEPHONE/FAX, ETC.
- 10. THE CONTRACTOR SHALL PROVIDE ROADSIDE TREE PROTECTION OR INDIVIDUAL TREE PROTECTION ALONG THE LIMITS OF CLEARING AND GRUBBING TO PROTECT EXISTING STANDS OF QUALITY VEGETATION FROM CONSTRUCTION ACTIVITIES AND FROM EQUIPMENT AND MATERIALS BEING STORED ADJACENT TO TREE TRUNKS. RESIDENT ENGINEER AND DCR LANDSCAPE ARCHITECT SHALL REVIEW TREE PROTECTION AND FENCING PRIOR TO START OF ANY MOBILIZATION OR CONSTRUCTION ACTIVITIES.
- 11. IT IS DCR'S INTENT TO PRESERVE VEGETATION AND TREES TO THE MAXIMUM EXTENT POSSIBLE
- 12. WORK ACTIVITIES SHALL BE CONDUCTED BETWEEN 7:00 AM AND 5:00 PM MONDAY THROUGH FRIDAY UNLESS OTHERWISE AUTHORIZED BY DCR.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA BOTH DURING AND AFTER THE HOURS OF CONSTRUCTION AND UNTIL THE SITE IS RESTORED. SECURITY MEASURES MAY INCLUDE TEMPORARY CONSTRUCTION FENCING, SIGNS AND, IF NECESSARY, BARRICADES TO LIMIT SITE ACCESS. ADDITIONAL MEASURES MAY BE INSTALLED AT THE DIRECTION OF DCR AND/OR ENGINEER IN ORDER TO ENSURE A SAFE WORKING ENVIRONMENT.
- 14. EXISTING TOPOGRAPHIC SURVEY IS BASED ON THE SURVEY OF MYSTIC VALLEY PARKWAY PREPARED BY HANCOCK ASSOCIATES ON AUGUST 20, 2018.
- 15. THE DRAWINGS DATUM: HORIZONTAL: MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, NAD 1983, MAINLAND ZONE, U.S. FEET. VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, U.S. FEET).
- 16. ALL EXISTING TOPOGRAPHY WITHIN THE CONSTRUCTION LIMITS SHALL BE RETAINED UNLESS OTHERWISE
- INDICATED OR DIRECTED BY THE ENGINEER. 17. AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE
- 18. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE ENGINEER.

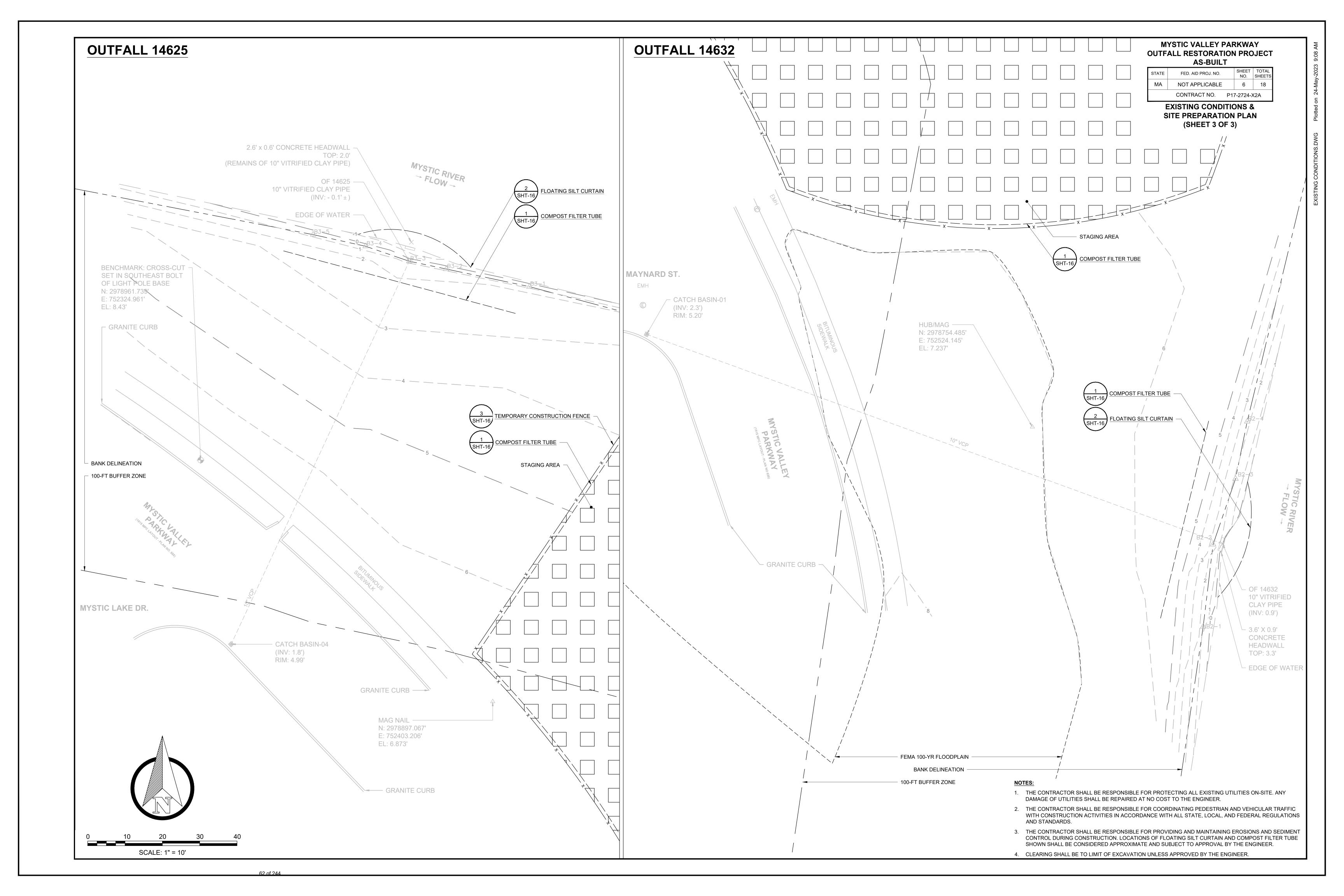
RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

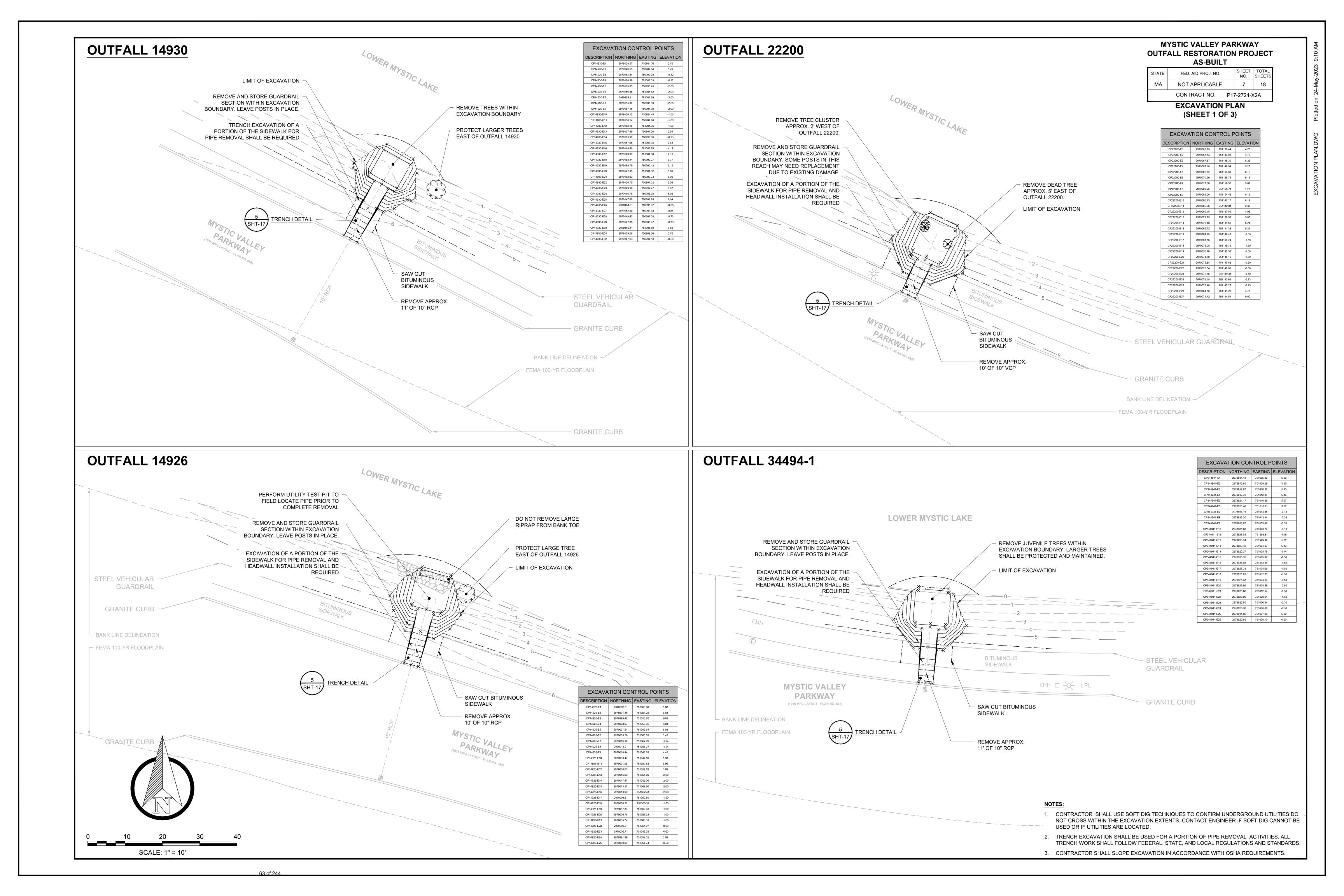
- 19. DAMAGE OF PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND ACCEPTANCE OF THE PROPERTY OWNER.
- 20. ALL NON-PRECAST CEMENT CONCRETE USED ON THIS PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI OR AS OTHERWISE SPECIFIED ON THE DRAWINGS.
- 21. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT HIS OWN EXPENSE IF NOT OTHERWISE SPECIFIED.
- 22. THE LOCATIONS OF PROPOSED PIPELINES, STRUCTURES AND UTILITY RELOCATIONS MAY BE MODIFIED TO SUIT FIELD CONDITIONS AT THE DISCRETION OF THE ENGINEER. OFFSETS TO DRAINAGE STRUCTURES ARE TO THE CENTER OF THE FRAME OR GRATE. INVERT ELEVATIONS MAY BE SUBJECT TO FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
- 23. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS, THE 2009 MUTCD AS AMENDED.
- 24. ALL PROPOSED DRAINAGE CONNECTIONS TO EXISTING PIPES WILL BE INCLUDED IN THE COST OF INSTALLATION OF THE NEW PIPE OR STRUCTURE.
- 25. WHEN A PROPOSED PIPE OR STRUCTURE INTERFERES WITH ANY UNDERGROUND UTILITY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- 26. ALL EXISTING DRAINAGE STRUCTURES AND PIPE TO REMAIN IN PLACE SHALL BE CLEANED AND SEDIMENTS DISPOSED OF.
- 27. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESEEDED PRIOR TO THE END OF THE
- 28. ALL TRENCH BACKFILL SHALL BE MECHANICALLY TAMPED; NO JETTING SHALL BE ALLOWED.
- 29. IF DURING THE WORK, THE PRESENCE OF POTENTIALLY HAZARDOUS MATERIALS OR CONDITIONS IS EVIDENT, WORK IN THE AREA SHALL BE SUSPENDED, WITH IMMEDIATE NOTIFICATION TO DCR. THESE CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, ENCOUNTERING BURIED CONTAINERS, DRUMS, OR TANKS. THE AREA WILL BE SECURED TO PREVENT THE EXISTENCE OF A HEALTH RISK OR RELEASE INTO THE ENVIRONMENT. THE SOURCES OF THE EVENT CAUSING THE MATERIAL TO BE CONSIDERED SUSPECT WILL BE EVALUATED BY DCR. IN THE EVENT THAT BURIED CONTAINERS, DRUMS, OR TANKS ARE ENCOUNTERED OR IF A RELEASE OF OIL OR POTENTIALLY HAZARDOUS MATERIALS HAS OCCURRED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, DCR, AND MASSDEP INCIDENT RESPONSE WITHIN THE REQUIRED REPORTING TIME PERIOD. THE REMOVAL OF BURIED TANKS, CONTAINERS, OR DRUMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 520 CMR 9.00 TANKS AND CONTAINERS.
- 30. REMOVAL AND REPLACEMENT OF GUARDRAIL SECTIONS AND POSTS SHALL BE CONSIDERED INCIDENTAL TO WORK AND NO ADDITIONAL FUNDING WILL BE AWARDED FOR SUCH WORK.
- 31. ALL WORK SHALL BE IN ACCORDANCE WITH MOST CURRENT VERSION OF MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

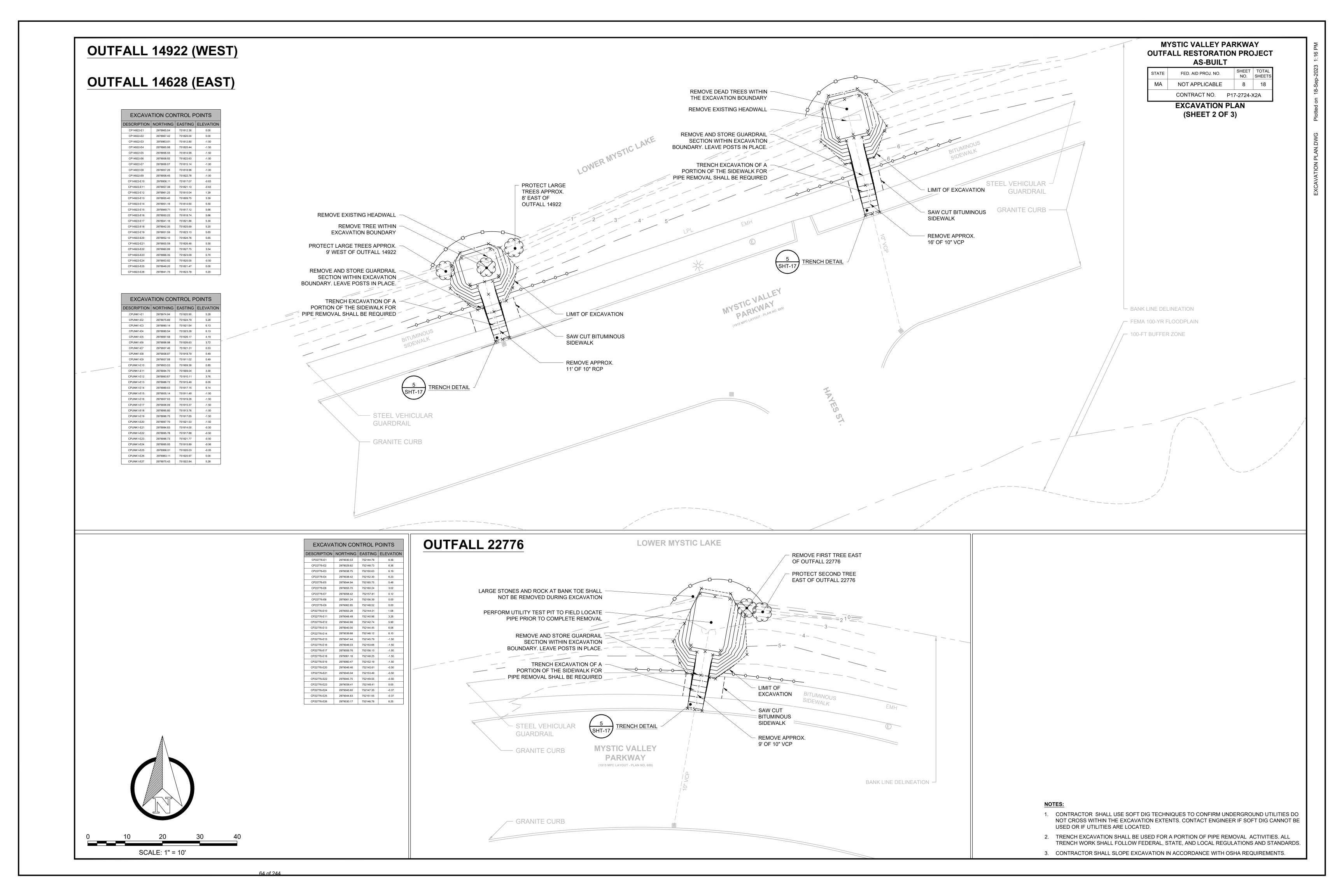


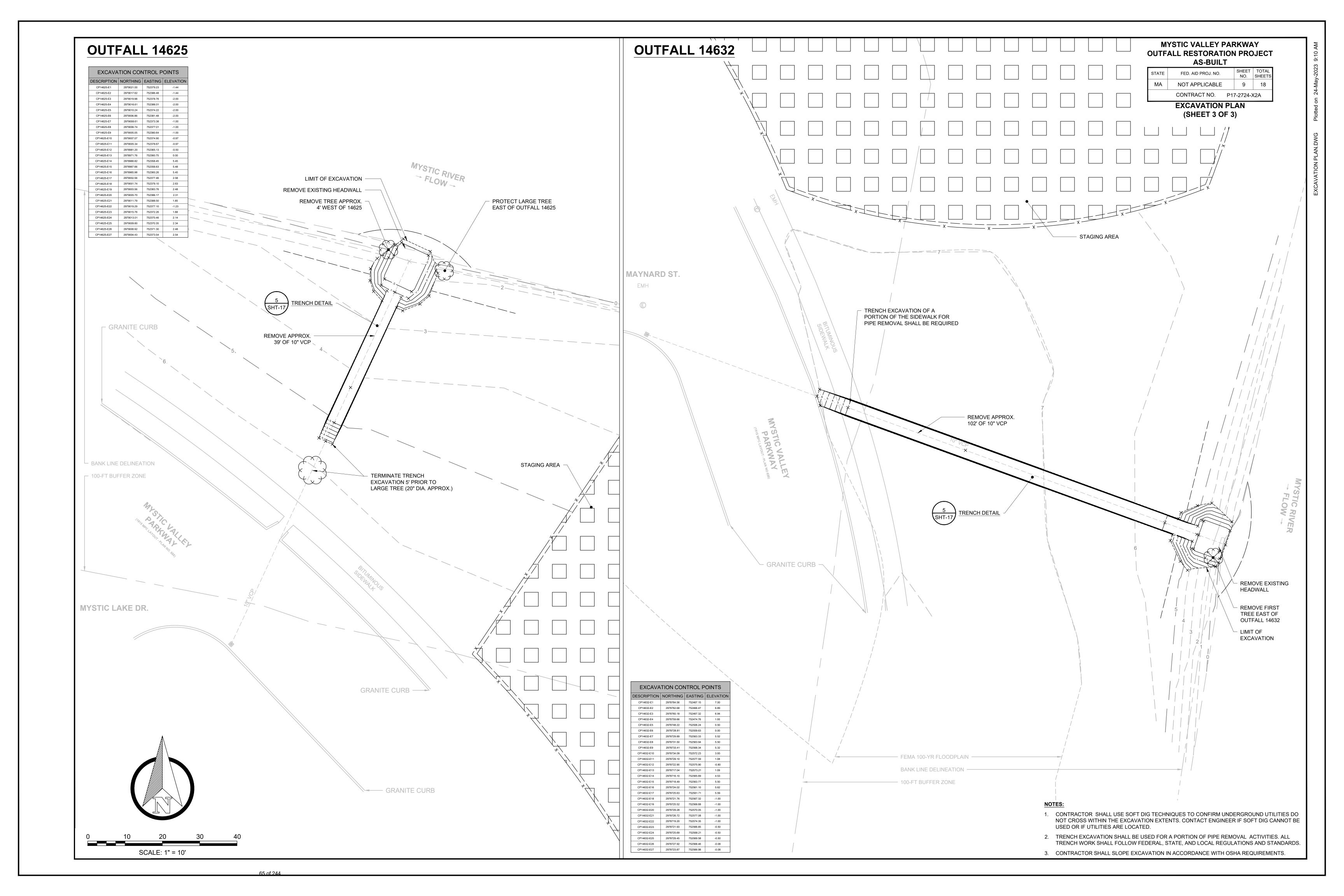


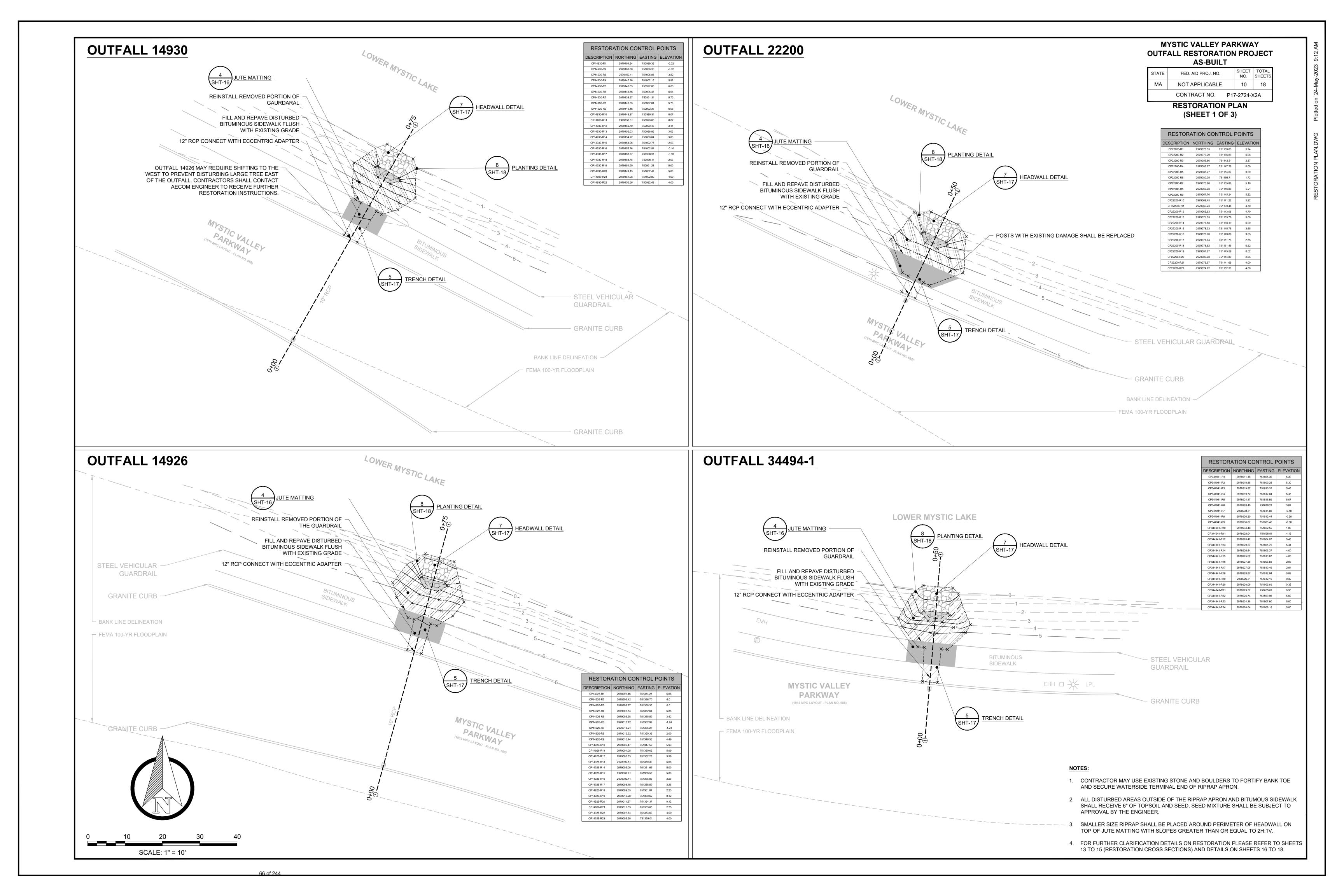


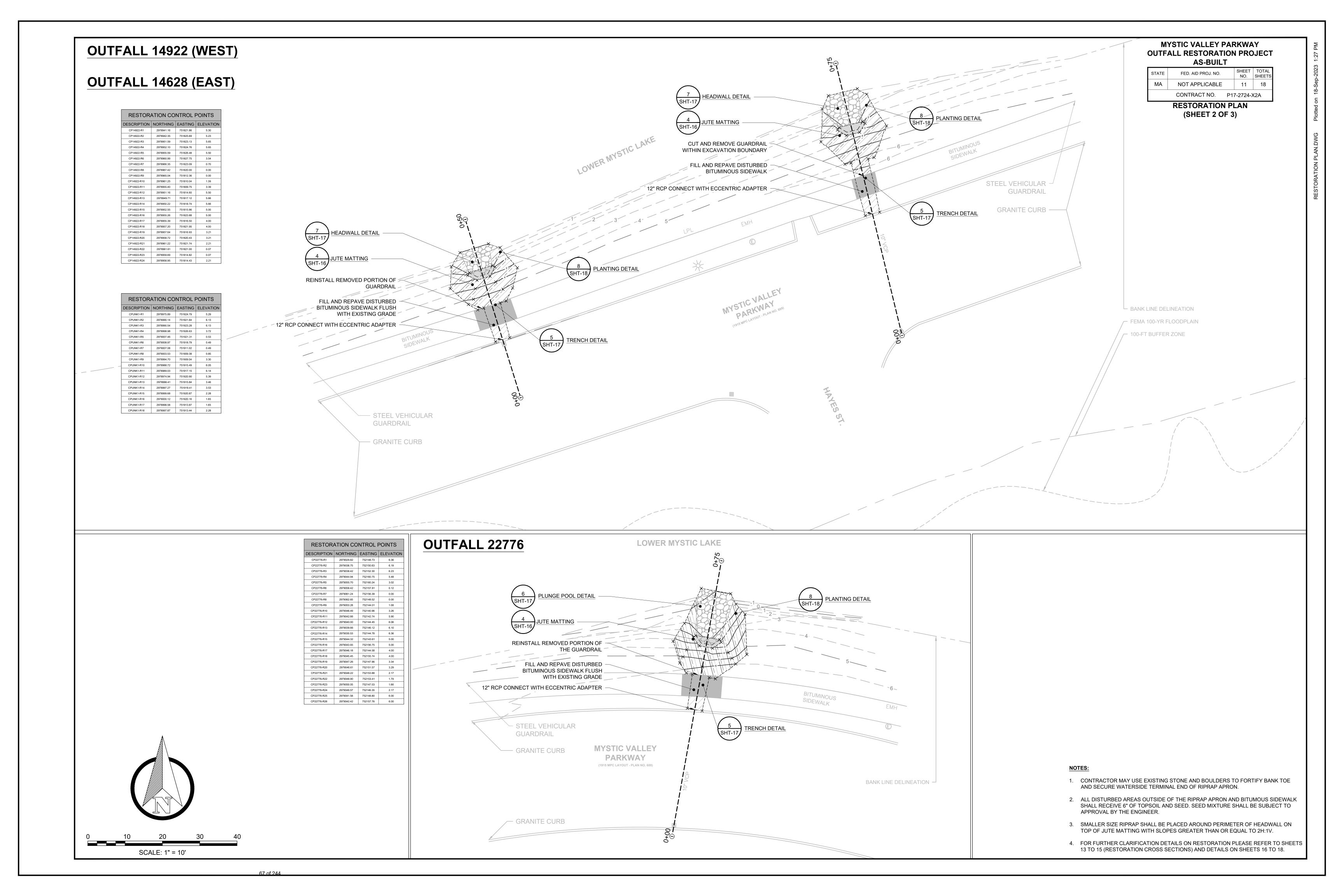


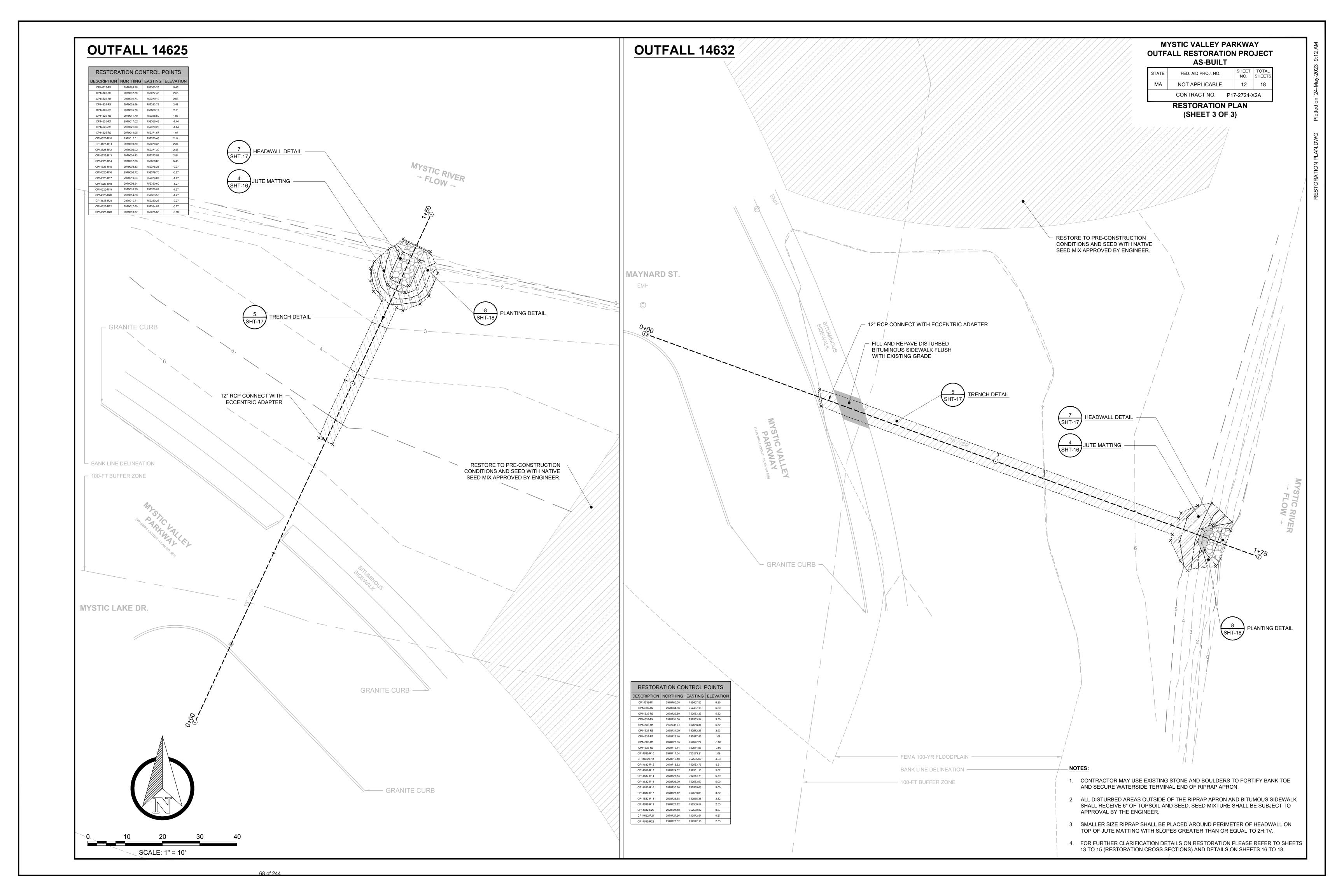




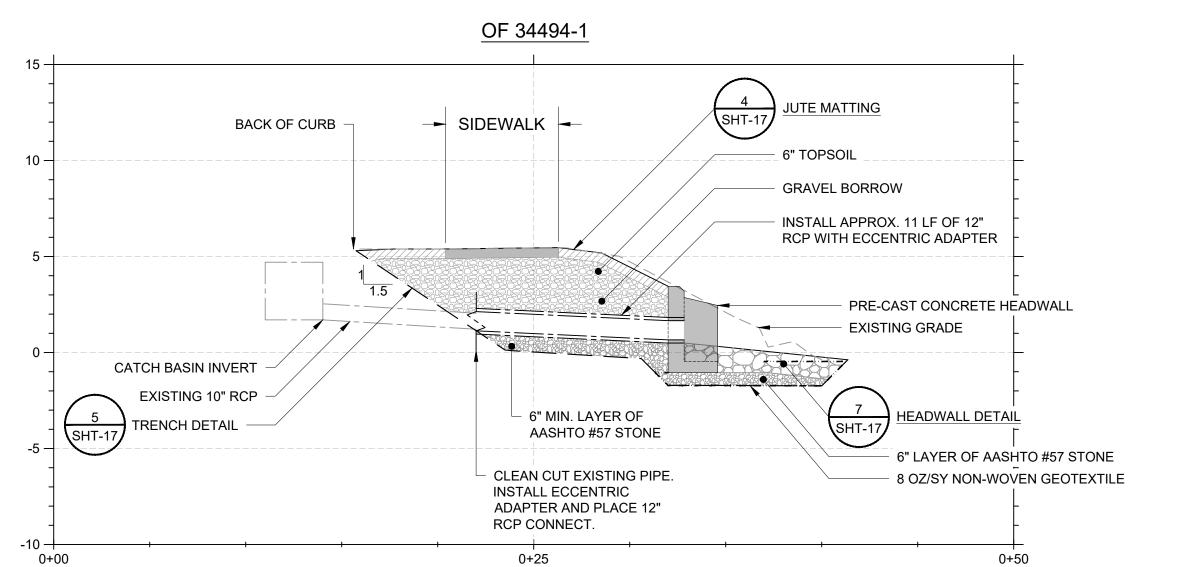


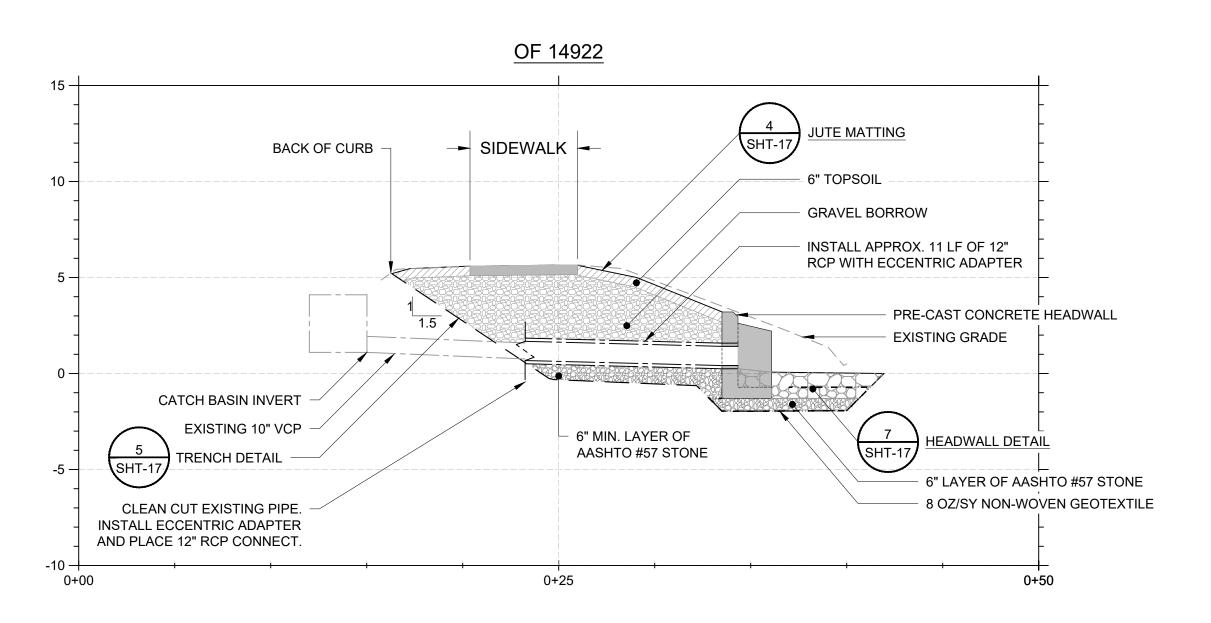


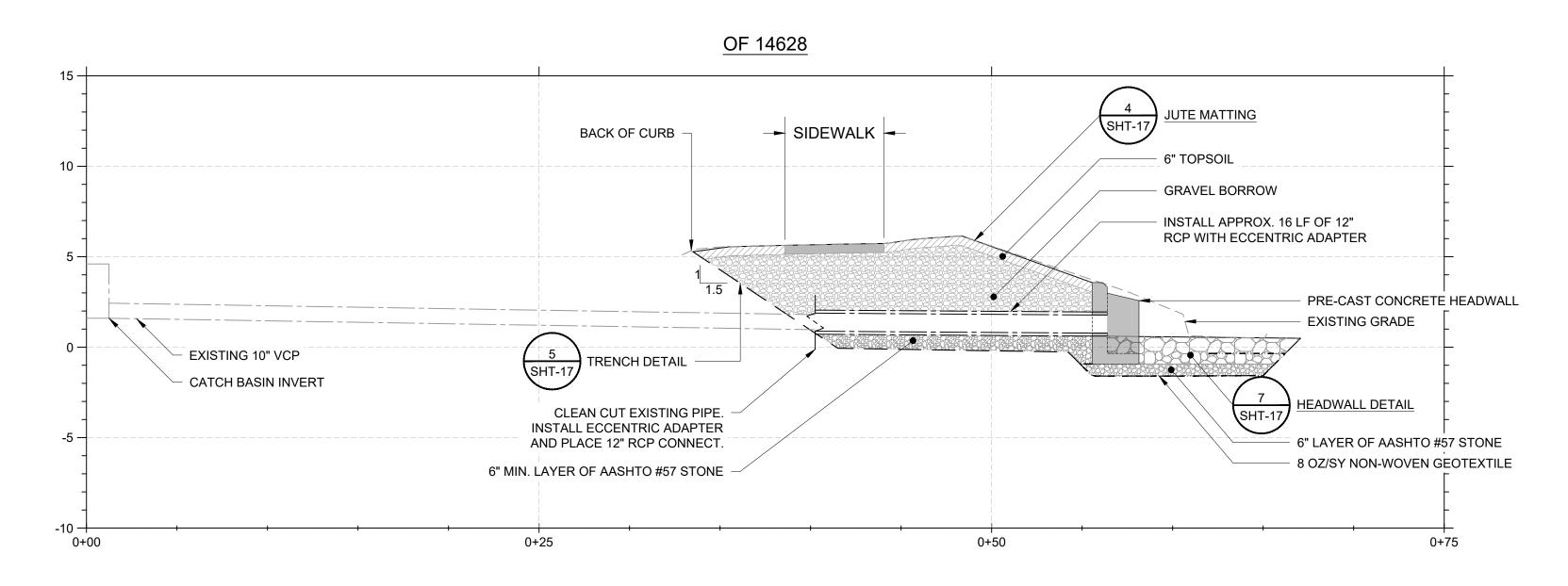




**MYSTIC VALLEY PARKWAY OUTFALL RESTORATION PROJECT AS-BUILT** STATE FED. AID PROJ. NO. NOT APPLICABLE 13 18 OF 14930 CONTRACT NO. P17-2724-X2A RESTORATION CROSS SECTIONS (SHEET 1 OF 3) JUTE MATTING → SIDEWALK → BACK OF CURB -6" TOPSOIL - GRAVEL BORROW - INSTALL APPROX. 11 LF OF 12" RCP WITH ECCENTRIC ADAPTER PRE-CAST CONCRETE HEADWALL EXISTING GRADE 5 SHT-17 TRENCH DETAIL EXISTING 10" RCP - CATCH BASIN INVERT CLEAN CUT EXISTING PIPE. INSTALL ECCENTRIC ADAPTER HEADWALL DETAIL AND PLACE 12" RCP CONNECT. 6" LAYER OF AASHTO #57 STONE 6" MIN. LAYER OF AASHTO #57 STONE 8 OZ/SY NON-WOVEN GEOTEXTILE 0+25 0+50 OF 22200 4 SHT-17 JUTE MATTING → SIDEWALK → BACK OF CURB — 6" TOPSOIL **GRAVEL BORROW** INSTALL APPROX. 10 LF OF 12" RCP WITH ECCENTRIC ADAPTER PRE-CAST CONCRETE HEADWALL - EXISTING GRADE CATCH BASIN INVERT EXISTING 10" RCP HEADWALL DETAIL SHT-17 TRENCH DETAIL -- 6" LAYER OF AASHTO #57 STONE 8 OZ/SY NON-WOVEN GEOTEXTILE 6" MIN. LAYER OF CLEAN CUT EXISTING PIPE. AASHTO #57 STONE INSTALL ECCENTRIC ADAPTER AND PLACE 12" RCP CONNECT. 0+00 0+25 OF 14926 JUTE MATTING SHT-17 → SIDEWALK → BACK OF CURB -— 6" TOPSOIL GRAVEL BORROW INSTALL APPROX. 10 LF OF 12" RCP WITH ECCENTRIC ADAPTER PRE-CAST CONCRETE HEADWALL EXISTING GRADE EXISTING 10" RCP TRENCH DETAIL - CATCH BASIN INVERT CLEAN CUT EXISTING PIPE. HEADWALL DETAIL INSTALL ECCENTRIC ADAPTER NOTES: AND PLACE 12" RCP CONNECT. 6" LAYER OF AASHTO #57 STONE 1. TRENCH EXCAVATION SHALL BE USED FOR PIPE REMOVAL. ALL TRENCH WORK 6" MIN. LAYER OF AASHTO #57 STONE 8 OZ/SY NON-WOVEN GEOTEXTILE SHALL FOLLOW FEDERAL, STATE, AND LOCAL REGULATIONS AND STANDARDS. 2. CONTRACTOR SHALL FOLLOW THE EXCAVATION GRADES PROVIDED IN SHEETS 7 TO 9, EXCAVATION PLAN. 0+25 0+50 3. FINAL GRADE SLOPES UPLAND OF THE HEADWALL SHALL BE APPROXIMATELY EQUAL TO EXISTING GRADE. CONTRACTOR SHALL FOLLOW THE FINAL GRADE HOR. SCALE IN FEET SLOPES PROVIDED IN SHEETS 10 TO 12, RESTORATION PLAN. 4. CONTRACTOR SHALL DISCUSS EXCAVATION STRATEGIES AND DESIGN GRADES WITH ENGINEER PRIOR TO BEGINNING EXCAVATION ACTIVITIES AND RESTORATION ACTIVITIES. VER. SCALE IN FEET

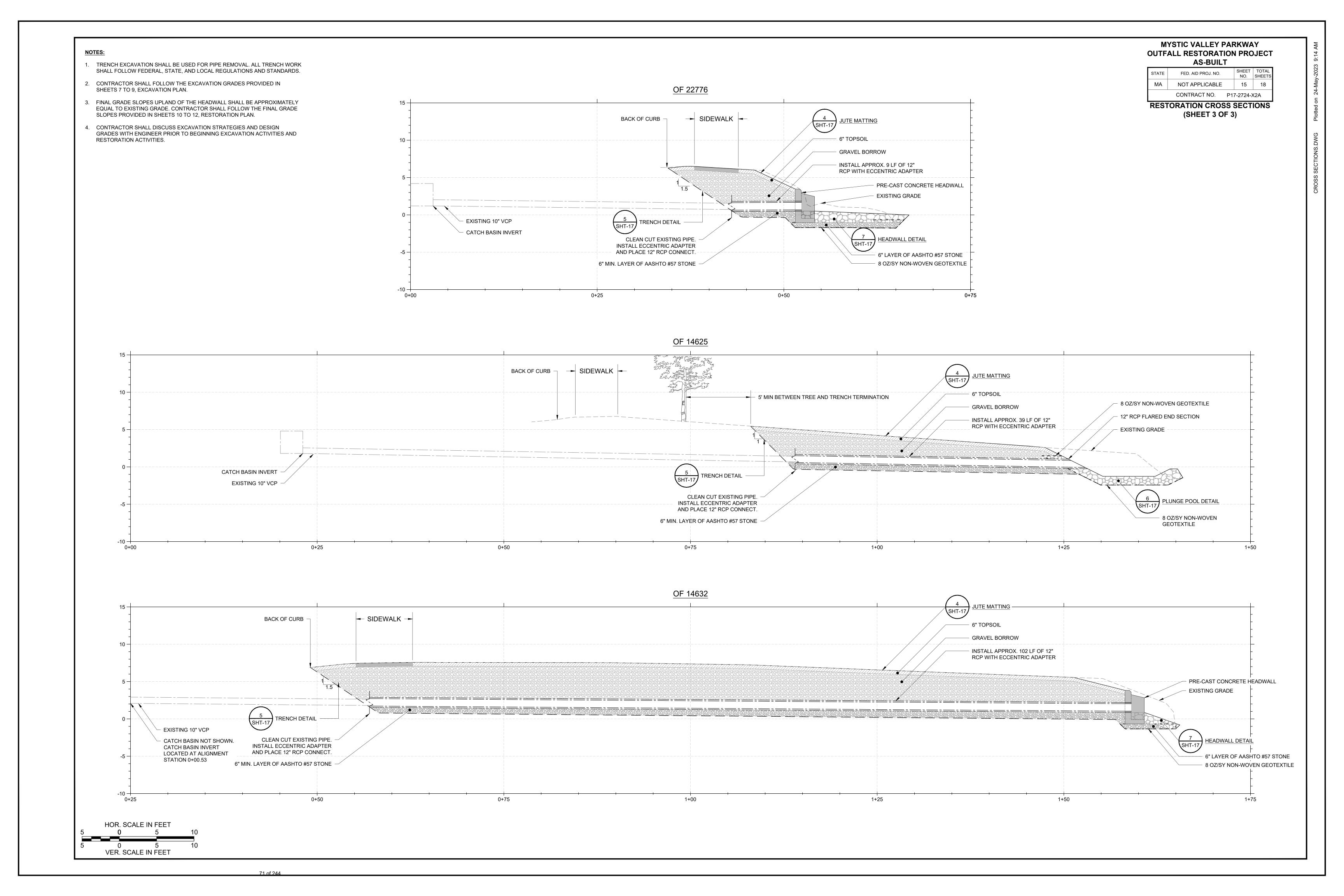






#### NOTES:

- TRENCH EXCAVATION SHALL BE USED FOR PIPE REMOVAL. ALL TRENCH WORK SHALL FOLLOW FEDERAL, STATE, AND LOCAL REGULATIONS AND STANDARDS.
- 2. CONTRACTOR SHALL FOLLOW THE EXCAVATION GRADES PROVIDED IN SHEETS 7 TO 9, EXCAVATION PLAN.
- 3. FINAL GRADE SLOPES UPLAND OF THE HEADWALL SHALL BE APPROXIMATELY EQUAL TO EXISTING GRADE. CONTRACTOR SHALL FOLLOW THE FINAL GRADE SLOPES PROVIDED IN SHEETS 10 TO 12, RESTORATION PLAN.
- 4. CONTRACTOR SHALL DISCUSS EXCAVATION STRATEGIES AND DESIGN GRADES WITH ENGINEER PRIOR TO BEGINNING EXCAVATION ACTIVITIES AND RESTORATION ACTIVITIES.



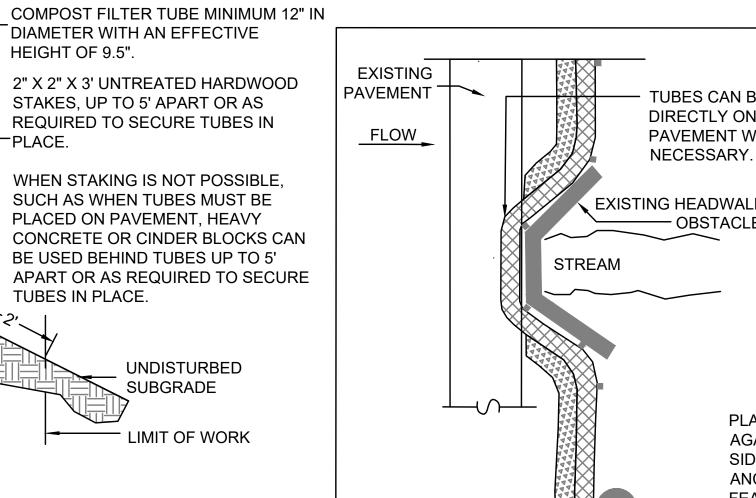
#### SITE PREPARATION & EROSION CONTROL DETAILS

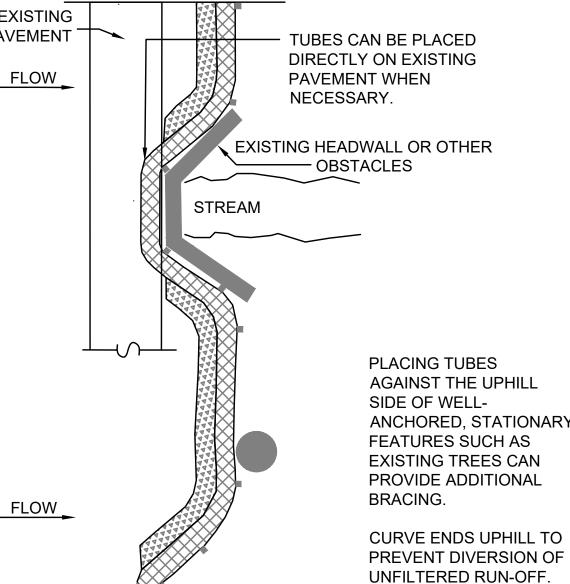
MYSTIC VALLEY PARKWAY **OUTFALL RESTORATION PROJECT** 

#### **FLOATING SILT CURTAIN NOTES:**

STATE

- 1. SILT CURTAIN SHALL BE TYPE I WITH MINIMUM CURTAIN WEIGHT OF 13 OZ. PER SQ. YD.
- 2. ALL CURTAIN ANCHOR POINTS SHALL HAVE SUFFICIENT HOLDING POWER TO RETAIN THE CURTAIN UNDER THE **EXISTING CONDITIONS.**
- 3. THE FURLED CURTAIN SHALL BE SECURED TO THE UPSTREAM ANCHOR POINT AND THEN SUBSEQUENTLY ATTACHED TO EACH DOWNSTREAM ANCHOR POINT UNTIL THE ENTIRE CURTAIN IS IN POSITION.
- 4. THE FURLING LINES SHALL NOT BE CUT UNTIL EACH LOCATION IS ASCERTAINED AND INSPECTED.
- 5. ANCHOR LINES SHALL BE ATTACHED TO THE FLOTATION DEVICE AND NOT TO THE BOTTOM OF THE CURTAIN.
- 6. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TO THIS DETAIL. SILT CURTAIN SUBJECT TO AECOM ENGINEER APPROVAL.
- 7. REMOVE THE BARRIER CAREFULLY WHEN THE WORK IS COMPLETED AND AFTER SUSPENDED SEDIMENTS HAVE BEEN ALLOWED SUFFICIENT TIME TO SETTLE OUT.







2" DEEP x 12" WIDE LAYER

OF LOOSE COMPOST

MATERIAL PLACED ON

UPHILL/FLOW SIDE OF

TUBES TO FILL SPACE

AND TUBES.

BETWEEN SOIL SURFACE

**EXISTING** 

GROUND 7

- TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR BIODEGRADABLE MATERIAL APPROVED BY ENGINEER.
- TUBES SHALL BE TAMPED IN PLACE TO INSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.
- PROVIDE A MINIMUM TUBE DIAMETER OF 12" FOR SLOPES UP TO 50' IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
- 4. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.

UNDISTURBED

LIMIT OF WORK

**SUBGRADE** 

DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.

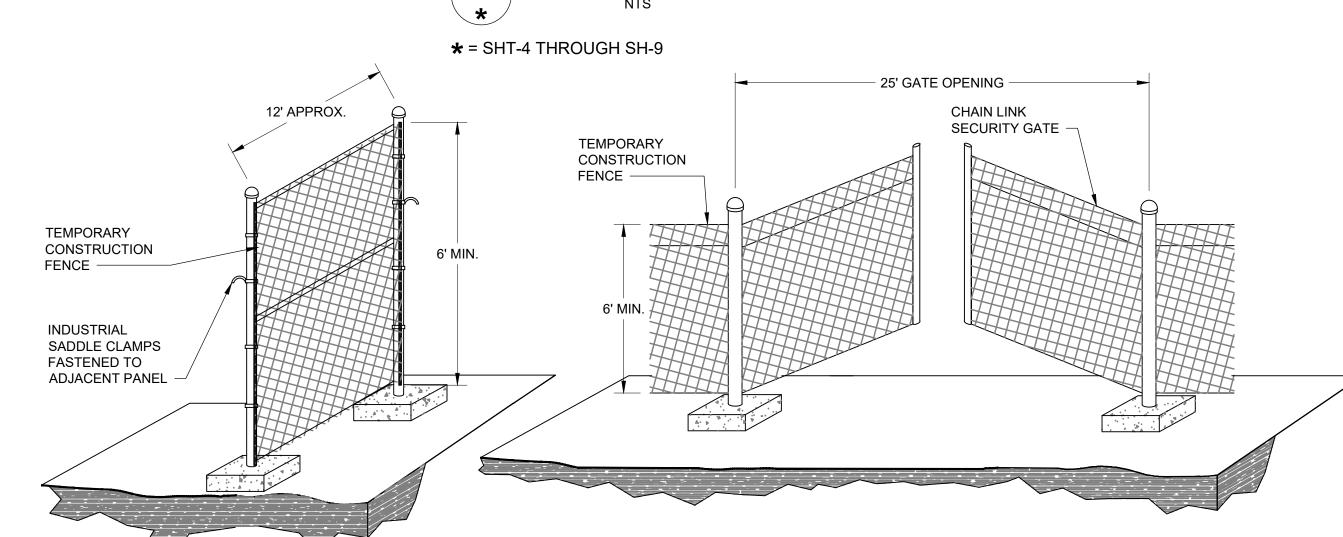
HEIGHT OF 9.5".

TUBES IN PLACE.

PLACE.

- CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.
- PROVIDE A 3' MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW.
- STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.
- SECURE ENDS OF TUBES WITH STAKES SPACED 18" APART THROUGH TOPS OF TUBES.

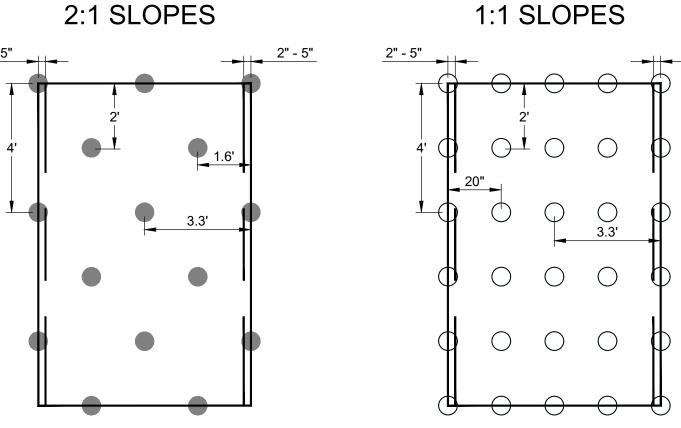


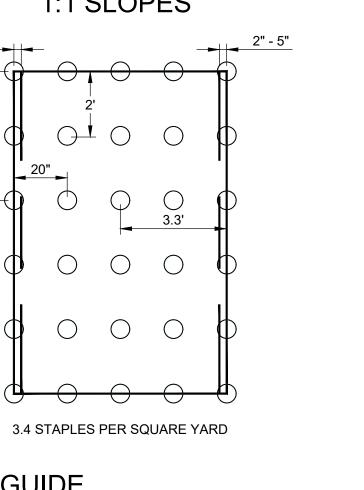


5 POLYPROPYLENE ROPE

 $\frac{3}{16}$  IN. CHAIN BALLAST

**FLOTATION** 



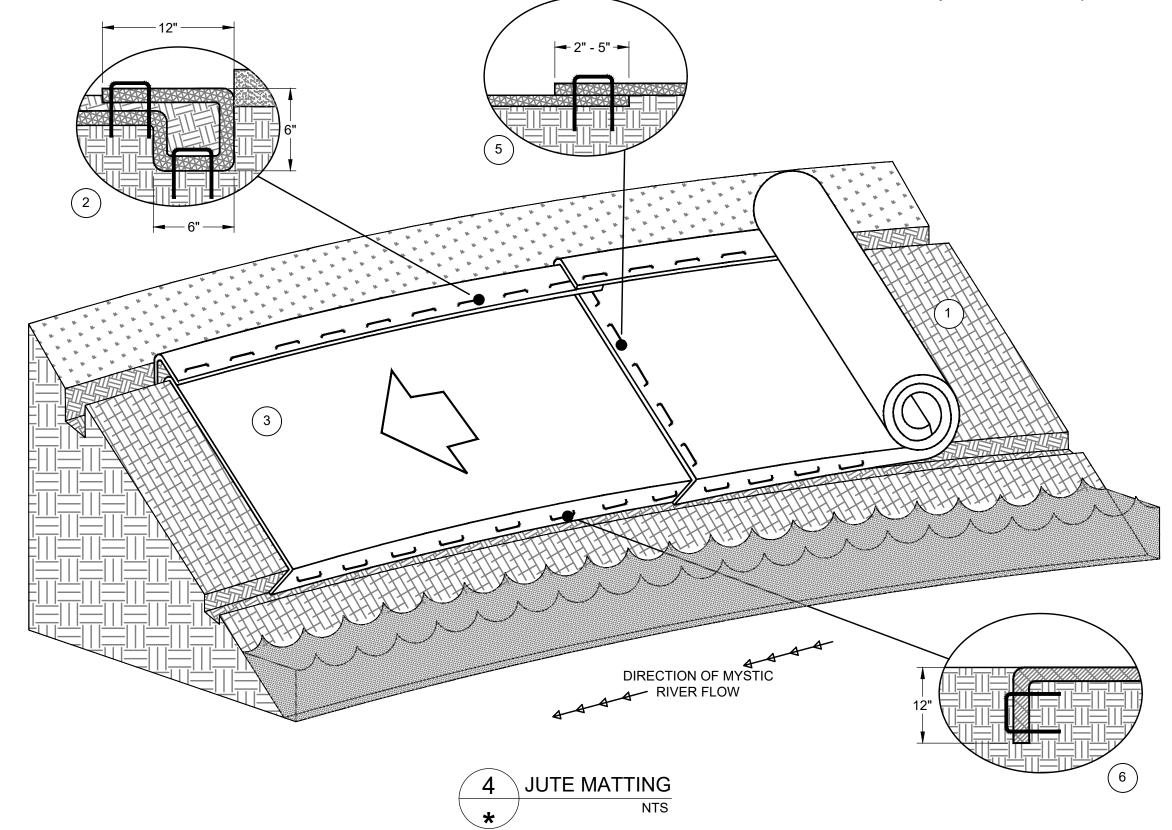


### STAPLE PATTERN GUIDE

#### STAPLE PATTERN NOTES:

1.7 STAPLES PER SQUARE YARD

- 1. THE AECOM ENGINEER AND CONTRACTOR SHALL SELECT THE APPROPRIATE STAPLE/STAKE TYPE AND LENGTH. STAPLES/STAKES SHALL BE SELECTED TO HOLD THE MAT IN INTIMATE CONTACT WITH THE SOIL SUBGRADE AND RESIST PULLOUT.
- 2. STAPLES AND/OR STAKES SHOULD BE AT LEAST 6 INCHES IN LENGTH AND WITH SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER STAPLES AND/OR STAKES MAY BE NEEDED IN LOOSER SOILS.



★ = SHT-10 THROUGH SHT-15

SECURE ENDS OF

**SPACED 18" APART** 

UNTREATED HARDWOOD

LOOSE COMPOST LAYER

COMPOST FILTER TUBE (TYP.)

TUBES.

STAKE (TYP.)

3' MIN.

PLAN VIEW - JOINT DETAIL

THROUGH TOPS OF

**TUBES WITH STAKES** 



#### **★** = SHT-6 & SHT-9

#### JUTE MATTING NOTES:

 $\frac{1}{4}$ " TIE ROPE  $\frac{1}{4}$ 

FOLDS FOR

ALL SEEMS HEAT SEALED -

2 \ FLOATING SILT CURTAIN

COMPACT

STORAGE

13 OUNCE PVC FABRIC

DEPTH

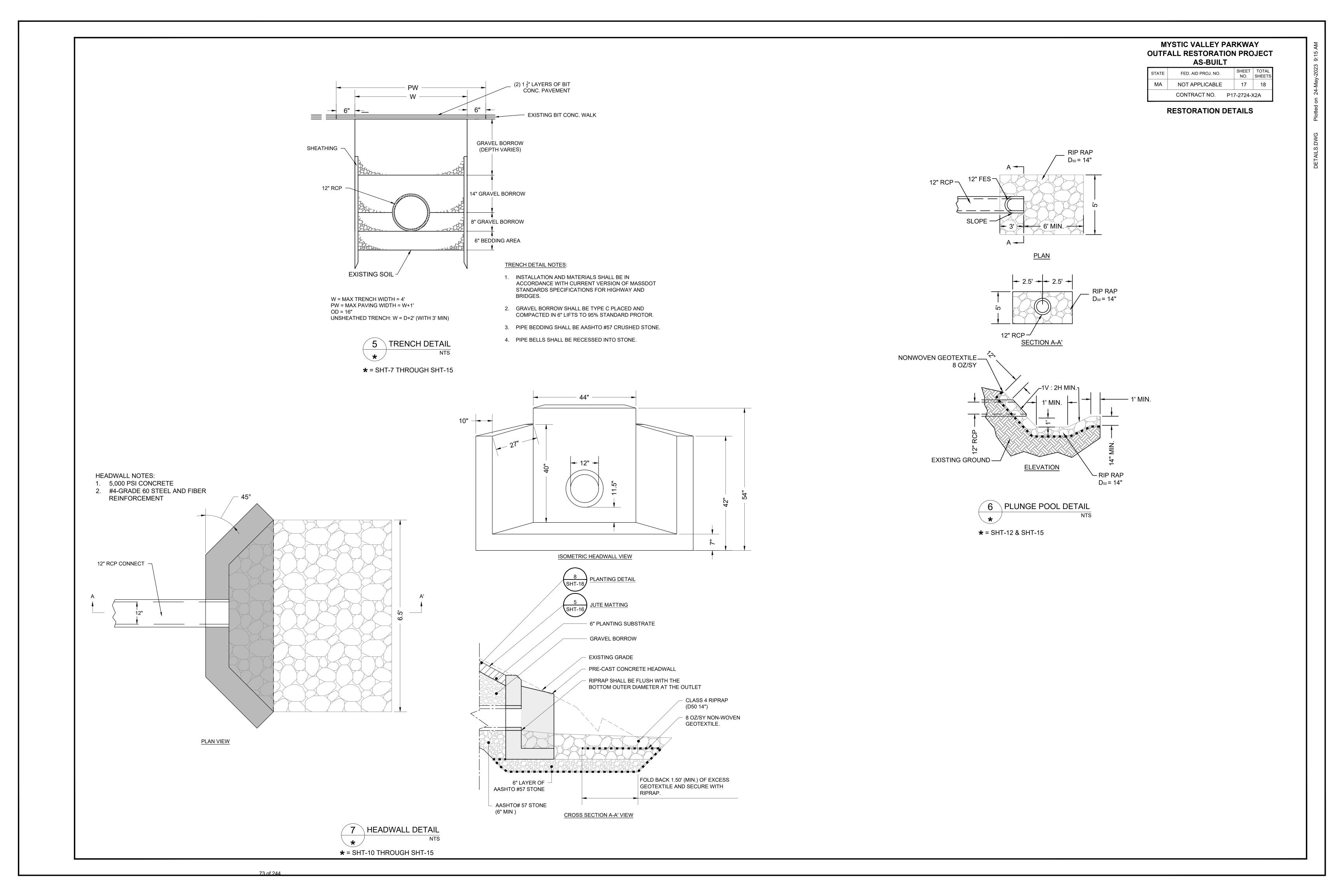
**ACCORDING** 

TO NEED

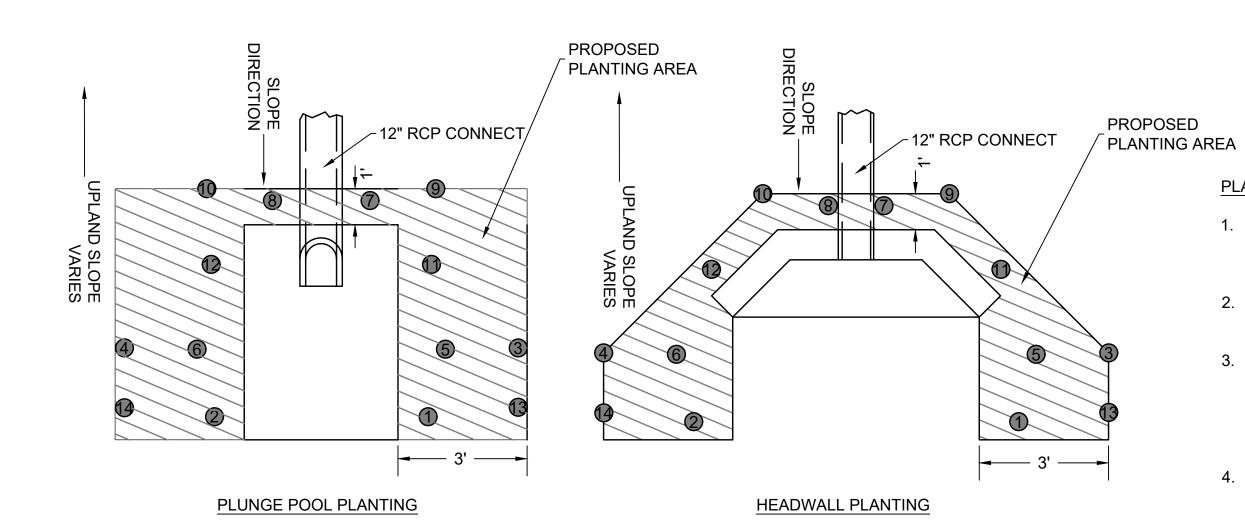
- 1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. PREPARE SOIL INCLUDING ANY NECESSARY APPLICATION OF SOIL AMENDMENTS SUCH AS LIME OR
- 2. BEGIN AT THE TOP OF THE SHORELINE BY ANCHORING THE JUTE MATTING IN A 6 INCH DEEP BY 6 INCH WIDE TRENCH WITH APPROXIMATELY 12 INCHES OF B/M EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE B/M WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12 INCHES APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. COMPACT SOIL AND FOLD REMAINING 12 INCH PORTION OF B/M BACK OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 INCHES ACROSS THE WIDTH OF THE B/M.
- 3. CONTRACTOR AND ENGINEER SHALL DISCUSS WHETHER TO ROLL THE JUTE MATTING VERTICALLY DOWN THE SLOPE OR ACROSS THE SHORELINE SLOPE PRIOR TO INSTALLATION. JUTE MATTING SHALL BE ROLLED IN A CONTROLLED FASHION. JUTE MATTING SHALL NOT BE ALLOWED TO ROLL DOWN THE SLOPE ON ITS OWN. LAY JUTE MATTING LOOSELY AND STAKE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH. ALL JUTE MATTING MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- 4. INSTALL JUTE MATTING OVER ENTIRE PLANTING AREA. AVOID EXISTING TREES AND EXISTING STUMPS.
- 5. IF NEEDED, PLACE CONSECUTIVE JUTE MATTING END OVER END (SHINGLE STYLE) WITH A 2 INCH TO 5 INCH OVERLAP. SEAM OVERLAPS SHOULD BE SHINGLED IN THE PREDOMINANT FLOW DIRECTION. STAPLE/STAKE THROUGH OVERLAPPED AREAS, APPROXIMATELY 12 INCHES APART ACROSS ENTIRE JUTE MATTING WIDTH.
- THE EDGES OF THE JUTE AT OR BELOW THE BANK LINE MUST BE ANCHORED BY PLACING THE JUTE MATTING IN A 12 INCH DEEP BY 6 INCH WIDE ANCHOR TRENCH. ANCHOR THE JUTE AMTTING WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 INCHES APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

TEMPORARY CONSTRUCTION FENCE

1. ALL TEMPORARY CONSTRUCTION FENCE SHALL HAVE VISUAL BARRIER FABRIC SECURED TO CHAIN LINK MESH.



#### PLANTING DETAILS



#### PLANTING SCHEDULE

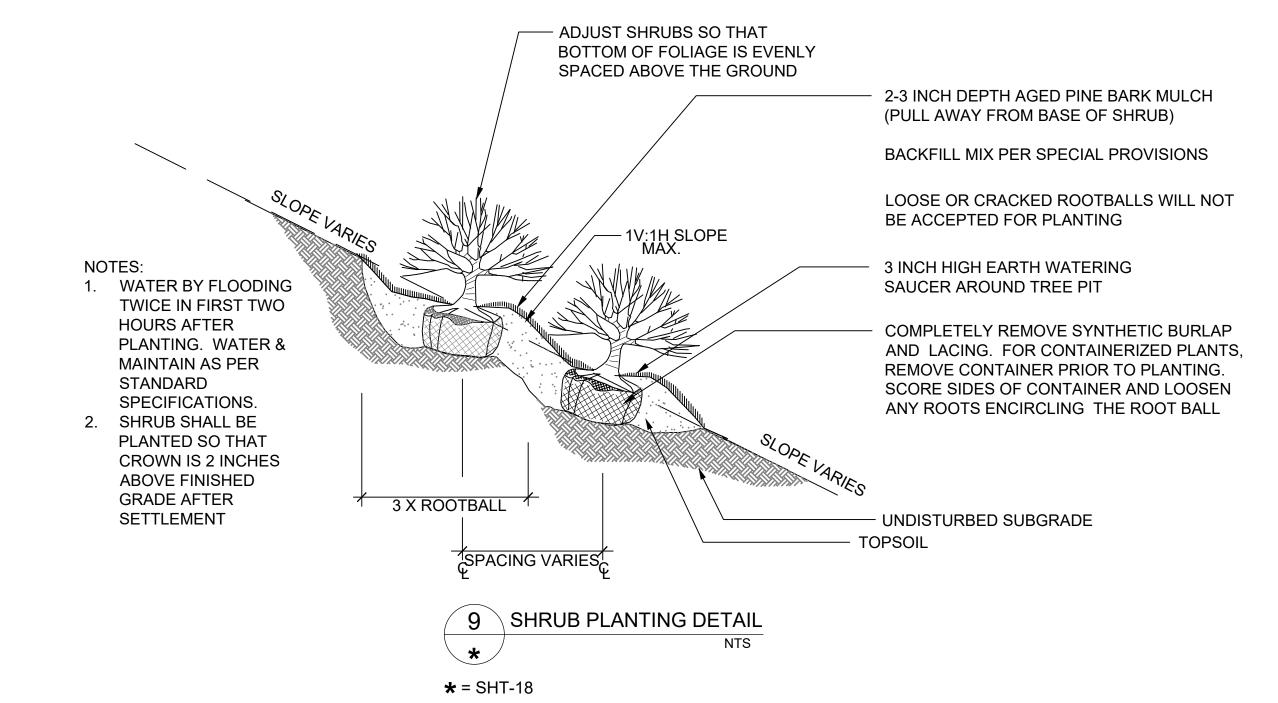
PLANT No.	LATIN NAME	COMMON NAME	TOTAL	SIZE	SPACING	DETAIL
1 - 2	Osmunda cinnamomea	CINNAMON FERN	18	1 GAL.	1' C/C	10
3 – 4	Lindera benzoin	SPICEBUSH	18	1 GAL.	8' - 10' C/C	9
<u> </u>	Viburnum acerifolium	MAPLE-LEAF VIBURNUM	18	1 GAL.	2' - 3' C/C	9
7 - 8	Vaccinium pallidum	LATE LOWBUSH BLUEBERRY	18	1 GAL.	2' - 2.5' C/C	9
9-0	llex verticillata	COMMON WINTERBERRY	18	1 GAL.	6' - 8' C/C	9
0 - 0	Vaccinium corymboum	HIGHBUSH BLUEBERRY	18	1 GAL.	2' - 2.5' C/C	9
0 - 0	Acer rubrum	RED MAPLE	18	3 - 4'	8' - 10' C/C	11

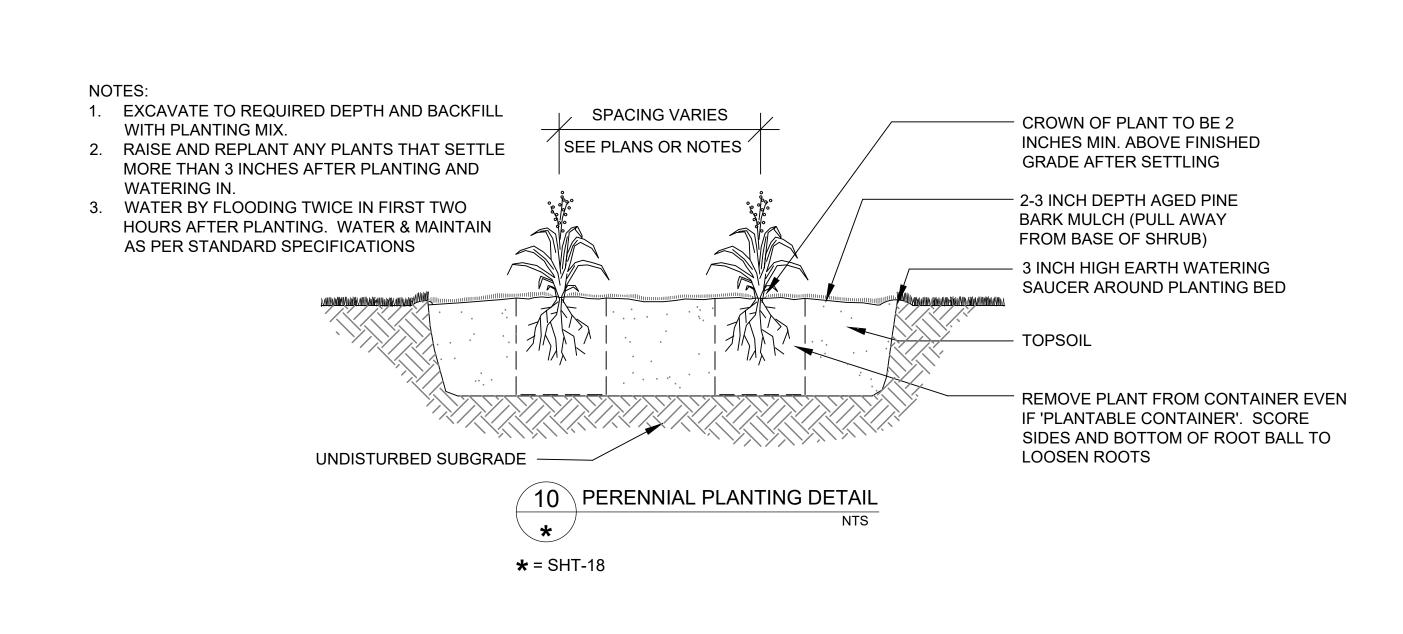
8 PLANTING DETAIL
NTS

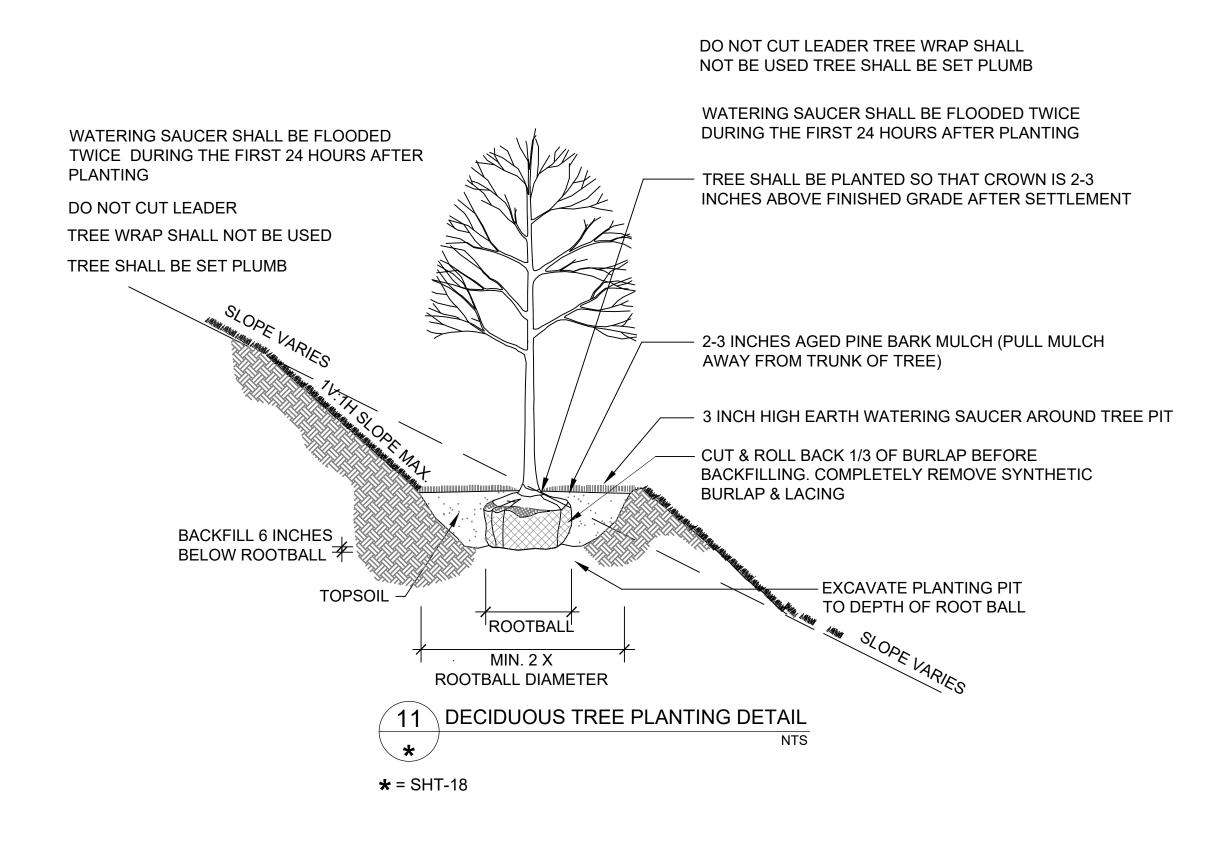
★ = SHT-10 THROUGH SHT-12

## PLANTING DETAIL NOTES:

- 1. A MAXIMUM OF 14 PLANTS WILL BE INSTALLED AROUND THE NEWLY CONSTRUCTED RIP-RAP SWALES
- 2. SPECIES TO BE PLANTED WILL VARY DEPENDING UPON AVAILABILITY.
- 3. SUBSTITUTIONS MAY BE MADE IF PLANT SPECIES DEPICTED ON THE PLANTING SCHEDULE ARE NOT AVAILABLE. ALL SUBSTITUTIONS WILL BE PLANTS NATIVE TO MASSACHUSETTS.
- 4. ALL DISTURBED AREAS, OUTSIDE THE RIP RAP AREA, SHALL BE SEEDED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX AT A RATE OF 25 LB/ACRE.









### **Town of Arlington, Massachusetts**

**Enforcement Order: 66R Dudley Street.** 

Summary:

Enforcement Order: 66R Dudley Street.

#### ATTACHMENTS:

	Type	File Name	Description
D	Reference Material	66R_Dudley_Enforcement_Order_Cover_Letter.pdf	66R Dudley Enforcement Order Cover Letter
ם	Reference Material	66R_Dudley_Street_Enforcement_Order_10122023.pdf	66R Dudley Street Enforcement Order 10122023
D	Reference Material	66-66R_Dudley_Street_Aerials_2014_to_2023.pdf	66-66R Dudley Street Aerials 2014 to 2023
D	Reference Material	66_Dudley_Notice_of_Noncompliance2014.pdf	66 Dudley Notice of Noncompliance - 2014
ם	Reference Material	66_Dudley_Notice_of_Violation2004.pdf	66 Dudley Notice of Violation - 2004

MASSACHUSETTS

#### **CONSERVATION COMMISSION**

October 12, 2023

BY CERTIFIED MAIL

Robert Castelluccio and Salvatore Lorusso S & R Realty Trust 66R Dudley Street Arlington, MA 02476

RE: Wetland Violations at 66-66R Dudley Street

The Arlington Conservation Commission believes that you have violated the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8. Our observations include those activities described in the enclosed Enforcement Order. Photographs of the site evidencing the same activities are enclosed.

This letter and the enclosed Enforcement Order serve to instruct you to immediately cease and desist from any further activity, and appear before the Conservation Commission at its Thursday, November 2, 2023, meeting, 7:00 PM. The meeting will be conducted remotely using Zoom. Registration details and instructions on how to join the meeting can be found on the Conservation Commission page of ArlingtonMA.gov. Please be prepared to explain the work that has been conducted so far, and your plans for the property so that the Commission can determine the appropriate corrective actions for you to come into compliance with the Act and Bylaw. Please be advised, the Conservation Commission reserves the right to assess fines for said violations or non-compliance with this letter and Enforcement Order pursuant to the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8.

Should you have any questions or need further information, do not hesitate to contact me in the Planning Department at 781.316.3012.

Thank you for your immediate time and attention in this matter.

Sincerely,

David Morgan Environmental Planner + Conservation Agent

Enclosure



#### **WPA Form 9 – Enforcement Order**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP	File	Number:

# Important:

When filling out forms on the computer, use only the tab key to move your cursor do not use the return key.





A. Violation Information	
This Enforcement Order is issued by:	
Arlington	10/12/2023
Conservation Commission (Issuing Authority)	Date
То:	
Robert Castelluccio and Salvatore Lorusso, S & R Re	ealty Trust
66-66R Dudley Street	
Address	
1. Location of Violation:	
Property Owner (if different)	
66-66R Dudley Street	
Street Address	
Arlington	02476
City/Town	Zip Code
55-2	30A
Assessors Map/Plat Number	Parcel/Lot Number
Extent and Type of Activity (if more space is required,     Unpermitted excavation, grading, and construction	, please attach a separate sheet):

### **B. Findings**

The Issuing Authority has determined that the activity described above is in a resource area and/or buffer zone and is in violation of the Wetlands Protection Act (M.G.L. c. 131, § 40) and its Regulations (310 CMR 10.00), because:

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone without approval from the issuing authority (i.e., a valid Order of Conditions or Negative Determination).



WPA Form 9 – Enforcement Order

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:	

B. Findings (cont.)						
	the activity has been/is being conducted in ar buffer zone in violation of an issuing authority app Determination of Applicability) issued to:	rea subject to protection under c. 131, § 40 or the val (i.e., valid Order of Conditions or Negative				
	Name	Dated				
	File Number	Condition number(s)				
	☐ The Order of Conditions expired on (date):	Date				
	☐ The activity violates provisions of the Certifica	The activity violates provisions of the Certificate of Compliance.				
	☐ The activity is outside the areas subject to probut has altered an area subject to MGL c.131 s.4	The activity is outside the areas subject to protection under MGL c.131 s.40 and the buffer zone, has altered an area subject to MGL c.131 s.40.				
	Other (specify):					
C.	Order					
	The issuing authority hereby orders the following	(check all that apply):				
		nd all others shall immediately cease and desist				
	from any activity affecting the Buffer Zone an Resource area alterations resulting from said returned to their original condition.	d/or resource areas. activity shall be corrected and the resource areas				
	☐ A restoration plan shall be filed with the issuir	ng authority on or before Date				
	for the following:					
	The restoration shall be completed in accordance	with the conditions and timetable established by the				

issuing authority.



WPA Form 9 – Enforcement Order

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP I	File Number:	

C.	Order (cont.)				
	Complete the attached Notice of Intent (NOI). The NOI shall be filed with the Issuing Authority on or before:				
	Date				
	for the following:				
	No further work shall be performed until a public hearing has been held and an Order of Conditions has been issued to regulate said work.				
	The property owner shall take the following action (e.g., erosion/sedimentation controls) to prevent further violations of the Act:  Attend the 11/2/2023 7:00 PM meeting of the Arlington Conservation Commission, establish erosion controls of a biodegradable 12" mulch sock at the limit of work				
	Failure to comply with this Order may constitute grounds for additional legal action. Massachusetts General Laws Chapter 131, Section 40 provides: "Whoever violates any provision of this section (a) shall be punished by a fine of not more than twenty-five thousand dollars or by imprisonment for not more than two years, or both, such fine and imprisonment; or (b) shall be subject to a civil penalty not to exceed twenty-five thousand dollars for each violation". Each day or portion thereof of continuing violation shall constitute a separate offense.				
D.	Appeals/Signatures				
	Enforcement Order issued by a Conservation Commission cannot be appealed to the Department of vironmental Protection, but may be filed in Superior Court.				
Que	estions regarding this Enforcement Order should be directed to:				
	Name				
	Phone Number				
	Hours/Days Available				
Issu	ued by:				
	Conservation Commission				

Conservation Commission signatures required on following page.



## **WPA Form 9 – Enforcement Order**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

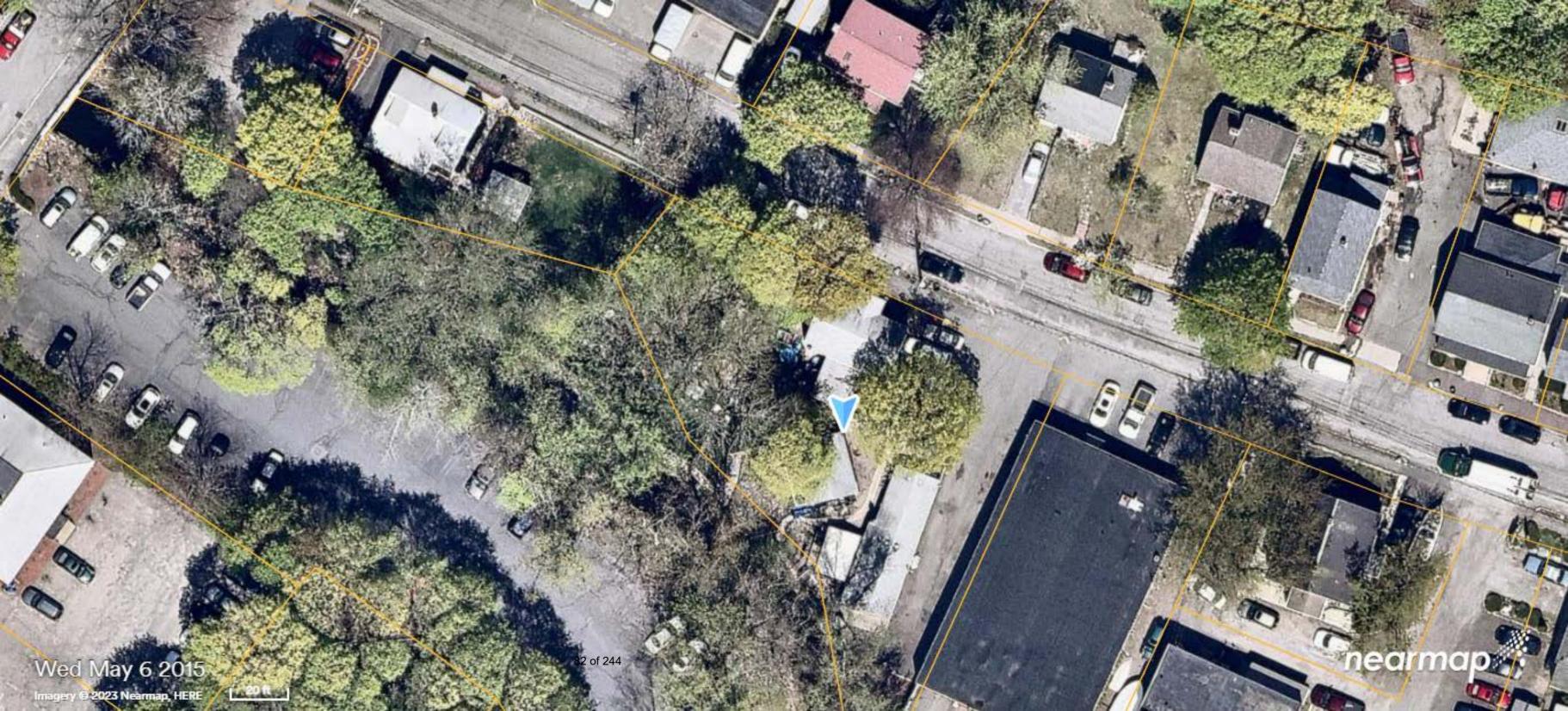
DEP File Number:

### D. Appeals/Signatures (cont.)

In a situation regarding immediate action, an Enforcement Order may be signed by a single member or agent of the Commission and ratified by majority of the members at the next scheduled meeting of the Commission.

atures:		
Signature	Printed Name	



























MASSACHUSETTS

#### CONSERVATION COMMISSION

#### **DRAFT**

November 5, 2014

Robert Castelluccio 10 Manhattan Dr. Burlington, MA 01803

RE: Notice of Noncompliance – construction work at 66 Dudley St, Arlington near Mill Brook

Mr. Castelluccio,

It has been reported to and observed this morning (see attached photos) by the Arlington Conservation Commission that construction work is being done on your property within 100 feet of the bank of Mill Brook without the permission of the Arlington Conservation Commission as required by the state Wetlands Protection Act and the Arlington Wetlands Protection Bylaw.

The vegetation and land within 100 feet of a water body provides habitat to wildlife, controls runoff of the soil from the upper portions of your property, and protects the water quality and aquatic habitat and fisheries of Mill Brook.

As such, you are immediately directed to:

- 1. stop any and all work within 100 feet of the bank of Mill Brook.
- 2. install sedimentation control fabric between the construction area and Mill Brook to stabilize the soil and prevent it from washing into the water way;
- 3. provide the Commission office with remediation and replanting plans as well as photos of the area by November 17<sup>th</sup>, and
- 4. appear at the next meeting of the Conservation Commission to discuss this matter, on Thursday, November 20, 2014 at 7:45pm, second floor conference room of the

TOWN HALL, 730 MASSACHUSETTS AVENUE, ARLINGTON, MA 02476 (781) 316-3012

Town Hall Annex.

Please note that the Commission may initiate further enforcement proceedings that can include fines or other civil actions if this matter is not promptly or adequately addressed and corrected.

Please call Cori Beckwith, Conservation Commission Administrator, at 781-316-3012 (or email cbeckwith@town.arlington.ma.us) for any questions on the above.

Sincerely,

Nathaniel Stevens, Chair

cc: D. Heim, Town Counsel Elaine M. Buchanan, 76 Beech St., Belmont, MA 02478



TOWN HALL, 730 MASSACHUSETTS AVENUE, ARLINGTON, MA 02476 (781) 316-3012





MASSACHUSETTS

#### CONSERVATION COMMISSION

## **DRAFT**

#### **NOTICE OF VIOLATION**

# CERTIFIED MAIL RETURN RECEIPT REQUESTED

October 5, 2004

Robert Castelluccio Salvatore Lorusso S & R Realty Trust 66 Dudley St Arlington, MA 02476

RE: Clearing of vegetation behind 66 Dudley Street near Mill Brook

The Conservation Commission has recently been informed of significant clearing of the vegetation and work within 100 feet of Mill Brook on your property at 66 Dudley Street, please refer to the attached photographs.

This work is a violation of the Massachusetts Wetlands Protection Act and the Arlington Bylaw for Wetlands Protection in that the area within 100 feet of the waterway needs to remain vegetated in order to provide significant protection of the water quality of the brook. This area is known as the Buffer Zone and the inner riparian zone of the Riverfront Area of Mill Brook.

This area should be immediately restored to the previous condition, all structures and gravel removed, the area replanted with new trees, shrubs and groundcover in order to restore the area to its original condition.

Please note that the Commission may initiate further enforcement proceedings that can include fines or other civil actions if this matter is not promptly corrected.

Please call Cori Beckwith at the following number for any questions on the above.

Sincerely,

TOWN HALL, 730 MASSACHUSETTS AVENUE, ARLINGTON, MA 02476 (781) 316-3012

Nathaniel Stevens Chair

Cc: Town Counsel







### **Town of Arlington, Massachusetts**

Notice of Violation: Watermill Place.

Summary:

Notice of Violation: Watermill Place.

#### ATTACHMENTS:

	Туре	File Name	Description
ם	Reference Material	Watermill_PlaceNotice_of_Violation.pdf	Watermill Place - Notice of Violation.pdf
ם	Reference Material	Watermill_PlaceOrder_of_Conditions _091-056.pdf	Watermill Place - Order of Conditions - 091-056.pdf
ם	Reference Material	Watermill_Place _Certificate_of_Compliance.pdf	Watermill Place - Certificate of Compliance.pdf

MASSACHUSETTS

#### CONSERVATION COMMISSION

Andrew Bellanger 1 Watermill Place Arlington, MA 02476

Arlington Conservation Commission 730 Massachusetts Avenue Arlington, MA 02476

The Arlington Conservation Commission believes that you have violated the Massachusetts Wetlands Protection Act and the Arlington Bylaw for Wetlands Protection. This means that you may have damaged wetlands or their surrounding areas.

Arlington's Conservation Agent visited the site on October 12, 2023, and found lawn area flagged for pesticide treatment. As discussed via email in May of last year, application of pesticide and herbicide within 200 feet of Mill Brook is an activity which requires permitting.

#### We ask that you:

Enclosures

- Stop all application of pesticide and herbicide within 200 feet of Mill Brook.
- Attend the November 2, 2023, meeting of the Conservation Commission to discuss future land management at Watermill Place that complies with the Wetlands Protection Act and the Arlington Bylaw for Wetlands Protection.

Issued by:	
Printed Name: David Morgan	
Date: 10/12/2023	



Figure 1 Pesticide application flag on Watermill Place lawn #1



Figure 2 Pesticide application flag on Watermill Place lawn #2



**EX** Flood control

OEQE File No. 91-56

(To be provided by DEQE)

City/Town ARLINGTON

Applicant SCAWALLO MILL

Naturnily Place

Order of Conditions

Massachusetts Wetlands Protection Act

arlington Cereral and By Jaws, Ch 40 Sec. 32 Arlington Conservation Commission Robert L. Green Larson Brothers Realty Schwamb Mill Associates <del>David Robson</del> (Name of property owner) (Name of Applicant) 24, 26 Mill Lane c/o Gadsby & Hannah Address One Post Office Sq. Boston Arlington, MA This Order is issued and delivered as follows: by hand delivery to applicant or representative on\_\_\_\_\_ \_ (date) by certified mail, return receipt requested on \_\_\_September 25, 1986\_\_\_\_ This project is located at Lowell Street & Mill Lane The property is recorded at the Registry of Middlesex South (Larson) 5310 Book (Robson) 90903, 584 Page 153. (Robstown) 90903 Certificate (If registered)\_ August 15, 1986 The Notice of Intent for this project was filed on \_ The public hearing was closed on \_\_\_\_September 4, 1986 **Findings** The Arlington Conservation Commission has reviewed the above-referenced Notice of Intent and plans and has held a public hearing on the project. Based on the information available to the \_\_\_\_ has determined that commission at this time, the commission the area on which the proposed work is to be done is significant to the following interests in accordance with the Presumptions of Significance set forth in the regulations for each Area Subject to Protection Under the Act (check as appropriate): ☐ Public water supply XX Storm damage prevention ☐ Private water supply MX Prevention of pollution ☐ Land containing shellfish **EX** Ground water supply

☐ Fisheries

Therefore, the <u>Arlington Conservation Commissible</u> finds that the following conditions are necessary, in accordance with the Performance Standards set forth in the regulations, to protect those interests checked above. The <u>Conservation Commission</u> orders that all work shall be performed in accordance with said conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications or other proposals submitted with the Notice of Intent, the conditions shall control.

#### General Conditions

- 1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- 2. This Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
- 3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state or local statutes, ordinances, by-laws or regulations.
- 4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
  - (a) the work is a maintenance dredging project as provided for in the Act; or
  - (b) the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance and both that date and the special circumstances warranting the extended time period are set forth in this Order.
- 5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
- 6. Any fill used in connection with this project shall be clean fill, containing no trash, refuse, rubbish or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles or parts of any of the foregoing.
- 7. No work shall be undertaken until all administrative appeal periods from this Order have elapsed or, if such an appeal has been filed, until all proceedings before the Department have been completed.
- 8. No work shall be undertaken until the Final Order has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is to be done. The recording information shall be submitted to the <a href="commission">commission</a> on the form at the end of this Order prior to commencement of the work.
- 10. Where the Department of Environmental Quality Engineering is requested to make a determination and to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before the Department.
- 11. Upon completion of the work described herein, the applicant shall forthwith request in writing that a Certificate of Compliance be issued stating that the work has been satisfactorily completed.

  103 of 244
- 12. The work shall conform to the following plans and special conditions:

- The owners of the project and their successors in title, in the event they proceed to alter wetlands under this Order, agree that the Town of Arlington shall have no responsibility to maintain the proposed drainage system and that said Town shall not be liable for any damages in the event of the failure of the drainage system. By acceptance of this Order, the owners indemnify and hold harmless the Town of Arlington and its residents for any damages attributable to alterations undertaken on this property pursuant to this Order.
- 2) Any changes made or intended to be made in plans for this project shall be reported to the Arlington Conservation Commission for approval.

#### CONSTRUCTION

- 3) Prior to start of any construction, detailed final plans must be submitted to and approved by the Arlington Conservation Commission on the following: 1) plans for stone work around 72" culvert; 2) final landscaping plans including species of plants; 3) sanitary sewer connection plan; 4) plans for demolition, notification fifteen days prior to demolition.
- 4) Construction of the storm drainage system must be completed during the initial phase of construction.
- 5) Dust shall be controlled during construction.
- 6) Exposed soil areas resulting from grading will be stabilized within thirty days of completion of rough grading, by reseeding or planting appropriate ground cover; if delayed due to frozen ground, then at the next planting season.
- 7) Double rows of hay bales shall be used during all phases of demolition and construction along Mill Brook to prevent siltation.
- Applicant should mark trees proposed to be removed; notification must be made to the Arlington Conservation Commission, the Director of Properties and Natural Resources, and the Measurer of Wood and Bark when this is done. The commission shall give final approval of trees to be removed.
- 9) Banks of Mill Brook must be left in their natural state; there shall be no riprapping of the banks. Rocks from the brook may be used, along with plantings, to stabilize the banks, especially in the steep areas.
- 10) Tunnel from the brook to the Mill Building must not be disturbed, but entrance to the tunnel from the brook should be screened to prevent vandalism.
- 11) This Order of Conditions must be incorporated as part of the Construction Contract and the prime contractor must submit in writing to the Arlington Conservation Commission, prior to commencement of construction, his notice of receipt and understanding of this Order as well as his intention to comply in full.

#### WATER QUALITY

- 12) Construction shall not impair groundwater and surface water quality.
- 13) Plans for all gas/oil traps/filters and complete drainage plans shall be submitted to the Arlington Conservation Commission and be approved by the Town Engineer prior to start of construction.
- 14) Provisions shall be taken to prevent rubbish, demolition and construction debris, or any other waste material, stone, dirt, sand or vegetative matter or any solid or liquid substance other than rain or snow surface drainage from entering any existing or new storm drain or any body of water from the site during construction or demolition or at any time thereafter.
- 15) Removal of any fuel or chemical tanks must be under the supervision of the Arlington Fire Department and the Arlington Conservation Commission must be notified in writing. Removal of the tanks, or any spillage or contaminated soil must be off-site. Prior to implementation, method of removal must be submitted to the Arlington Conservation Commission.
- 16) Soils contaminated by oil, grease, etc., if found during demolition or construction, must be removed off-site.

#### MAINTENANCE

- 17) No salt may be used on-site. Developer must erect "No-Salt Zone" signs in conspicuous locations during the winter months.
- 18) It is the obligation of the developer or the owners, to maintain the storm drain system and Mill Brook inperpetuity. This obligation does not end with a Certificate of Compliance being issued by the Arlington Conservation Commission.
- 19) Maintenance personnel will keep Mill Brook free and clear of all trash, vegetative matter, and other debris and foreign objects of every kind and description, and will clean the brook, its inlet and outlet as often as necessary to so comply. If any work other than ordinary maintenance should become necessary, the developer, or owner, must appear before the Arlington Conservation Commission with a Request for Determination of Applicability.

#### GENERAL CONDITIONS

No pesticides or herbicides are to be used on the site without prior notification to, and the elapse of fifteen (15) days during which such use is not disapproved by, the Arlington Conservation Commission and the Arlington Board of Health, and the owner agrees to enforce regulations so governing such use on the site. Care should be exercised in fertilizing lawns; fertilizers should be added only to wet grass, to minimize fertilizer runoff into Mill Brook; no fertilizer should be used near the banks of Mill Brook.

- 21) All equipment and material utilized on the site shall be stored away from the Mill Brook and otherwise away from or above floodwater levels.
- 22) Any equipment needed for work near the brook, shall not remain near the brook when not in actual use. No heavy equipment is allowed in Mill Brook during or after construction.
- 23) All areas on the site where mechanical equipment is being utilized shall be checked at least weekly, and more often if necessary, for deposits of oil and/or grease, and, if found, such deposits shall be removed and the equipment repaired or replaced.
- 24) Adequate measures shall be taken to prevent any and all effects of erosion, both during construction and thereafter, from affecting any existing or new storm drains or Mill brook waterway.
- 25) Adequate measures shall be taken to prevent any stormwater from entering the site from Lowell Street, Frazer Road or Thompson Street through driveway access curb cuts or by any other route.
- 26) No work shall be commenced under this Order until all other required permits have been obtained and all appeal periods have expired without an appeal having been taken, or if an appeal has been taken, that the same has been finally adjudicated or otherwise dismissed.
- 27) Final landscaping plans for the project shall be submitted and approved by the Schwamb Mill Preservation Trust and the Arlington Conservation Commission.
- 28) Developer must work with the MDC to try to alleviate source of methane gas odors in the area.

#### Plans

Title	Dated	Signed and Stamped by:	On File with:
Topographic Plan	7/22/86	Boston Survey Consultants	A.C.C.
Illustrative <sub>P</sub> Site	8/04/86	C.B.T. Designs	A.C.C.
Boring Location	7/25/86	B.S.C. Engineering	A.C.C.
Elevations	7/10/86	C.B.T. Designs	A.C.C.
<u>IItility Plan</u> Proposed	7/22/86	B.S.C. Engineering	A.C.C.

#### Special Conditions (Use additional paper if necessary)

See Attached pages - twenty-eight (28) conditions

(Leave Space Blank)

Issued By ARLINGTON	
	Conservation Commission
Signature(s) K. Duce Welter	
Atel Alle In	
Roland E Chaput de	
Eugene Q. Cancelliere	Thua D Waleh
This Order must be signed by a majority of the Cor	servation Commission.
On this 24th day of Septe	mber 19 <sup>86</sup> , before me
On this 24th day of Septembersonally appeared R Bruce (A	to me known to be the
• • •	ing instrument and acknowledged that he/she executed
the same as his/her free act and deed.	
$\mathcal{L}$	•
Tamena hahr	De 4 1992-
Notary Public	My commission expires
mail or hand delivery to the Conservation Commission and the	applicant.
	•
	•
	•
	prior to commencement of work
	prior to commencement of work.
To	prior to commencement of work.
To  Please be advised that the Order of Conditions for the project	prior to commencement of work
To	prior to commencement of work
To	prior to commencement of work.    Issuing Authority
To	prior to commencement of work.  Issuing Authority  Issuing Authority
To	prior to commencement of work.

Wroternice File

#### Form 8



DEQE File No.	91-56
	(To be provided by DEQE)
City/Town	Arlington
Applicant	chwanh Mill
	Associates

Certificate of Compliance

Massachusetts Wetlands Protection Act, G.L. c. 131, §40

and Arlington Gen. By - Law, C. 40, 532

From	ARLINGton Conservation Commission Issuing Authority
To <u>Sc</u>	(Name) (Address) Sosten My 021
Date of Is	2 0 00
This Certi	ficate is issued for work regulated by an Order of Conditions issued to Schwamh Mill
1. 🗷	It is hereby certified that the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.
2. 🗆	It is hereby certified that only the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed: (If the Certificate of Compliance does not include the entire project, specify what portions are included.)
3. 🗆	It is hereby certified that the work regulated by the above-referenced Order of Conditions was never commenced. The Order of Conditions has lapsed and is therefore no longer valid. No future work subject to regulation under the Act may be commenced without filing a new Notice of Intent and receiving a new Order of Conditions.
	(Leave Space Blank)

4. 🗶	This certificate shall be recorded in	=		
•	which the land is located. The Orde			
	at the Registry of	SCX fauth, Book	, Page	<del></del> .
We Add	The following conditions of the Ord Final Order, such as maintenance of  #2, #6, #9, #  NI, #22, #25,  also request the re  Aress and Telephology  Arelington Consol  (s)	der shall continue: (Set forth any or monitoring, which are to continue to the state of the stat	conditions contained tinue for a longer period #18, #19  Association  contact period	in the d.)  #20  and  exeson
R. Oa	typue Shelle	Eugene Ce	Camelliere South	
On this_ personal person d	day of hay appeared home. Use as his/her free act and deed.	valsh	, before m , to me known to be	e the
1		10/4	100	
Notary P	Junover haber	My commission expire		
	dotted line and submit to the			
	tvised that the Certificate of Compliance for the			
File Number	has been recorded at t	the Registry of	·	
	n noted in the chain of title of the affected pro			
If recorded	and, the instrument number which identifies t	his transaction is		
If registered	land, the document number which identifies	this transaction is		
C:				Applies-4



## Town of Arlington, Massachusetts

## **Symmes Conservation Restriction.**

## Summary:

Symmes Conservation Restriction.

## ATTACHMENTS:

	Type	File Name	Description
D		Symmes_Conservation_Restriction _Forest_Restoration_and_Invasives_Species_Mitigation_Management_Plan.pdf	Symmes Conservation Restriction - Forest Restoration and Invasives Species Mitigation Management Plan.pdf
ם	Reference Material	Symmes_Conservation_RestrictionSurvey.pdf	Symmes Conservation Restriction - Survey.pdf



## Plant Healthcare Consultants, Inc.





American Society of Consulting Arborist • International Society of Arboriculture

Massachusetts Arborist Association • Massachusetts Tree Wardens and Foresters Association

TREE INVENTORIES • APPRAISALS • DIAGNOSIS • TREE RISK ASSESSMENTS



# Forest Restoration and Invasive Species Mitigation Management Plan

## Summer Street Woods CR/Arlington 360 Arlington, MA 02474

Prepared for:

Adam Post, Construction Project Manager Greystar One Federal Street, Suite 1804 Boston, MA 02110

Prepared by:

Daniel E. Cathcart
Registered Consulting Arborist
Plant Healthcare Consultants, Inc.
134 Allen Street
Braintree, MA 02184

June 18, 2023

Daniel E. Cathcart
Plant Healthcare Consultants, Inc.

134 Allen Street, Braintree, MA 02184 • Phone (617) 237-7695

dan.cathcart@gmail.com • www.treeconsultant.com

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## **Summary**

I was retained as a Consulting Arborist to develop a forest restoration and invasive species management plan (the "Plan") for the Summer Street Woods Conservation Restriction (the "CR") located in Arlington, MA. The purpose of the Plan is to evaluate the condition of the CR and present an outline that is in alignment with The Town of Arlington's Conservation Commission Amended and Restated Agreement for Management of the Conservation Area. This Plan includes the current profile of the CR, a summary of invasive species populations, a multi-year policy for reducing the population of invasive species, and a multi-year restoration planting strategy for the CR.

To create the Plan, I performed an inventory of the invasive species within the CR. I identified individual trees and shrubs (or patches of invasive species if more appropriate), numbered and geolocated them on a GIS map. With this data I developed a plan that will encompass removing and control the invasives and restore the CR by planting native species to the site. A component of this Plan is the timeline and specifications for the performing tree care operations.

I found the entirety of the site to be approximately 18 acres. Of that, approximately 8.25 acres is woodland protected by the CR. In that 8.25 acres I identified 665 individual invasive trees including, Norway maple (*Acer platanoides*), Tree of Heaven (*Ailanthus altissima*), black locust (*Robinia pseudoacacia*), boxelder (*Acer negundo*). In addition to the invasive species, I identified 24 standing dead trees of various species and several dead, fallen trees and debris piles that will be removed as part of the Plan.

I also located approximately 10,400 sq ft of invasive shrubs including, common buckthorn (*Rhamnus cathartica*), wild rose (*Rosa multiflora*), Japanese knotweed (*Fallopia japonica*), winged euonymus (*Euonymus alatus*), and Oriental bittersweet (*Celastrus orbiculatus*). While not classified as invasive, this area also includes several areas of poison ivy (*Toxicodendron radicans*), which is noxious, and for purposes of this Plan will be included as an invasive plant. A complete plant inventory and map of locations is included in this Plan.

The Plan outlines a five-year approach to removing and controlling invasive species and reintroducing native trees and shrubs to the CR. Roughly twenty percent of the trees and invasive shrubs/vines will be removed annually. An average of 125 individual trees and 2,080 sq ft of shrubs/vines will be removed each year. The exact

number of tree removals and areas of shrubs treated will vary each year based on analysis of plant density, access, location, etc., and are defined in the Specifications Section of the Plan. In addition to the physical removal, the invasive shrubs and vines will be treated with an herbicide material to minimize regrowth.

The Plan also presents a revegetation schedule to restore the site with native species of trees and shrubs that have been marginalized by the expansion of the invasive species populations. Approximately 75 native trees and 25 native shrubs will be planted annually. The Plan includes erosion control measures and provisions for the development of passive recreational land use. The restoration specifications are included in this Plan.

\*\*Note – This Plan was created based on the conditions of the site at the time of my field visits. This is a preliminary Plan and may be modified and adjusted once the final land survey is completed and the monument markers are placed.

#### Introduction

## Background & History

Arlington 360 is a mix-income family community located on the 18-acre site of the former Symmes Hospital in Arlington, MA. The community is comprised of 176 residential townhome and apartment units, amenity buildings, common green spaces and a 90-unit assisted living facility. The development is surrounded by the Summer Street Woods Conservation Restriction.

The purpose of the Conservation Restriction is to protect and preserve the character and integrity of the forested area for the publics use in perpetuity. The protected, woodland areas comprise approximately 8.25 acres of urban forest, which provides both a buffer between the residential use and the public open space for passive recreation use and appreciation of the natural environment and wildlife.

Upon initial approval of the project the Town of Arlington required, as a condition of the project, that a multi-year forestry management plan be developed. The plan would outline the removal of the invasive species in the CR and restore the site with native species, allowing the site to be a passive recreation area for the residents of Arlington to enjoy.

While a plan was created in 2012, to date, I am not aware that the proposed work has been completed. In 2023, Adam Post, Regional Construction Project Manager for Greystar Construction Services became intimately involved with project as owner's representative for Arlington 360. As such, Greystar is now acting as the owner's liaison to deliver the Town of Arlington's stipulations and make the site compliant.

On April 25, 2023, Adam Post of Greystar, contacted my office inquiring to retain my services as a Consulting Arborist to create a current and up-to-date forest management plan that targets removing the invasive species and restoring the CR. I agreed to accept the project and entered into a contract with Greystar on May 30, 2023.

## Assignment

The scope of my assignment was to create a Forest Restoration and Invasive Species Mitigation Management Plan for the Summer Street Woods CR that is compliant with the requirements set forth by the Town of Arlington. Specific services are outline below:

- 1. Initial Assessment and Management Plan (Year 1)
  - a. Site visits as required to gather data to complete the scope of work for this project,
  - b. Inventory each parcel of the site to determine species diversity and populations,
  - c. Assess the health, condition, and safety of the flora in each parcel and highlight invasive species,
  - d. Geolocate specific invasive trees and high concentrations of invasive shrubs as well as high-risk trees,
  - e. Summarize tree and shrub data,
  - f. Recommend actions to improve safety, reduce invasive species and restore with native species plants,
  - g. Develop written management plan compiling all the data and recommendations discovered during the field work in this project,
  - h. and
  - i. Revise and update report upon the request of the Client or Arlington's Conservation Committee.

#### 2. Various Meeting

- a. Weekly team meetings for status updates and adjustments, and
  - b. Semimonthly Arlington Conservation Committee meetings.

## Limits of Assignment

The recommendations and conclusions provided in this report are based on my visual observations only. I did not examine the plant's interiors, nor did I collect soil or plant tissue samples for laboratory testing.

This Plan was created based on the conditions of the site at the time of my field visits. This is a preliminary Plan and may be modified and adjusted once the final land survey is completed and the monument markers are placed.

## **Purpose and Use of Report**

This report is meant to outline and support the opinions and observations used to create the Plan. It is a blueprint to the tree care operations and restoration of the CR.

The report is intended to provide the steps and procedure required to attain compliance set forth by the Town of Arlington.

This report is the property of Greystar and may be used and shared as it deems necessary.

## **Observations**

I performed three site visits to collect the data required for this Plan:

- May 31, 2023
- June 3, 2023
- June 10, 2023

During these visits I made observation, identified invasive species, numbered each tree, shrub, or vine, and Geolocated each plant with a Trimble R1, submeter GNSS receiver.

Specific observations are listed below.

#### Site

Arlington 360 was developed atop a hill, on approximately 18 acres in central Arlington, MA. The location is primarily ledge with some stark drop-offs and elevation changes. The complex has two components, the residential apartments, and townhomes at the summit of the hill, and an assisted living facility situated along the main drive, about halfway up the hill.

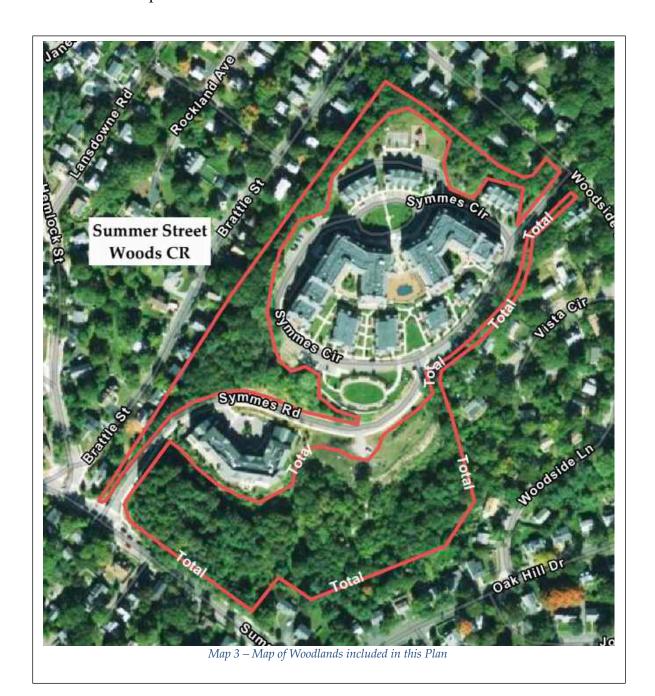




The location of the development is within the Summer Street Wood CR. There is approximately 8.25 acres of woodlands that are protected under the CR. Much of the vegetation has grown and adapted to the harsh growing conditions. The rugged terrain and ledge limited the development of a truly diverse tree population. The majority of the site contain mixed hardwood trees with a few conifers. The understory trees, shrubs and vines consist of both native and introduced species – some considered invasive or noxious. The overall health of the plants is in fair to good condition considering the history of the property.

There is a large population of invasive species on the site. Invasive species tend to proliferate in unforgiving growing conditions. Their adaptability is partially the reason they have been deemed invasive. The fact that the area once served as a town nursery for growing Norway maples it is not surprising that the population of this invasive species is pervasive.

When evaluating the entire wooded area, with a focus on the removal and control of invasive species and replanting the site with native species, I divided the area into 5 distinct areas. The map below indicates the entire 8.25 acres of woodland, outlined in red. The next map shows this area broken into the 5 individual work areas.



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Map 4 – Map of Defined Areas

The Areas where carefully and strategically selected based on population of trees, ease of access, proximity to roads, total DBH of plants to be removed, and future planting efforts.

## Plants – Full Property

Entering the site from the southwest corner of the property I noted a heavily forested area to the east of the entry road. I climbed the driveway, passing the assisted living facility on the right side. Along the climb there was exposed ledge and some significant sheer rockfaces. Continuing up the driveway I reached the summit of the hill and found the residential apartments and town homes. I noted the entire development was surround, to varying degrees, with naturally wooded land.

I began my inspection at the northeast corner of the property, along Old Hospital Road, and worked count-clockwise around the site. I noted the make-up of the naturally wooded areas to consist of primarily deciduous trees, maples, oaks, hickory, black cherry and a host of invasive trees and shrubs. There were several conifers in the upper portion of the site, but the area was predominantly a deciduous forest.

While conducting my inventory I identified 665 invasive trees, 4" in diameter at breast height ("DBH") and larger. I also identified standing and fallen dead trees. Additionally, approximately 10,400 square feet of invasive and noxious shrubs and vines were located. I geolocated each plant and placed it in an ArcGIS map. The entire population is difficult to digest on the complete map, so I have also provided maps of each defined Area (see Appendix A – Maps, pages 22 – 37).

The table below is a summary of the count of trees and square footage of shrub beds found over the entire site. A detailed inventory of all the trees and shrubs are included in the report (see Appendix B – Inventory, pages 38 – 72).

Trees			Shrubs		
Common Name	Latin Name	Count	Common Name	Latin Name	Sq. Ft.
Norway Maple	Acer platanoides	420	Tree of Heaven	Ailanthus altissima	7804
Tree of Heaven	Ailanthus altissima	138	Boxelder	Acer negundo	788
Black Locust	Robina pseudoacacia	58	Knotweed	Fallopia japonica	787
Boxelder	Acer negundo	16	Wild Rose	Rosa multiflora	420
Buckthorn	Rhamnus cathartica	4	Buckthorn	Rhamnus cathartica	389
Wild Rose	Rosa multiflora	4	Poison Ivy	Toxicodendron radicans	251
Knotweed	Fallopia japonica	2			
Poison Ivy	Toxicodendron radicans	1			
Other/Dead	Various ssp.	22			
	<b>Total Tree Count</b>	665		Total Sq. Ft.	10,438

*Table 1 – Site Summary* 

Below is a map of the entire site with all invasive trees, shrubs, and vines plotted. The designated Areas are outlined for reference.



Map 5 – All Trees, Shrubs and Vines

#### Area 1

This section comprises the north and east sides of the property, including the triangle of land between Symmes Road and Symmes Cir. As this area surrounds the majority of the residences it has the most interaction with finished landscape. The protected CR land has transition into landscape plantings. With the exception of the triangle of land, the depth of the woodland, acting as a buffer with neighboring sites, is the narrowest.

This area is approximately 2.25 acres. Despite it being one on the larger areas in size, this area is also most accessible, due to roads and open common areas. The Plan accounts for this as the determination for removal and control distribution was considered.

The following table is a summary of the plants in Area 1.

Trees			Shrubs		
Common Name	Latin Name	Count	Common Name	Latin Name	Sq. Ft.
Tree of Heaven	Ailanthus altissima	82	Tree of Heaven	Ailanthus altissima	2684
Norway Maple	Acer platanoides	70	Wild Rose	Rosa multiflora	270
Black Locust	Robina pseudoacacia	10	Poison Ivy	Toxicodendron radicans	93
Boxelder	Acer negundo	9	Boxelder	Acer negundo	51
Wild Rose	Rosa multiflora	4			
Poison Ivy	Toxicodendron radicans	1			
Other/Dead	Various ssp.	11			
	Total Tree Count	187		Total Sq. Ft.	3,098

Table 2 – Area 1 Summary

#### Area 2

This section is part of the larger, heavily wooded area on the south side of the property. It is bounded by Summer Street to the south, the assisted living facility to the north, Symmes Road to the west and Area 2 to the east. This area has a high concentration of mature trees, the majority of which are Norway maples. In this area there are dead tree standing in place as well as ones that have fallen. There are also several significant debris piles, resulting from previous tree failures.

This area is approximately 1 acre. It is one on the smaller areas in size but has a high tree volume. There is some accessibility from Summer Street as well as Symmes Road. Clearing of Area 2 is critical to allow access into the area 3, 4, & 5.

The following table is a summary of the plants in Area 2.

Trees			Shrubs		
Common Name	Latin Name	Count	Common Name	Latin Name	Sq. Ft.
Norway Maple	Acer platanoides	108	Tree of Heaven	Ailanthus altissima	647
Tree of Heaven	Ailanthus altissima	9	Knotweed	Fallopia japonica	787
Black Locust	Robina pseudoacacia	3	Buckthorn	Rhamnus cathartica	243
Buckthorn	Rhamnus cathartica	3	Wild Rose	Rosa multiflora	90
Other/Dead	Various ssp.	4	Poison Ivy	Toxicodendron radicans	90
			Boxelder	Acer negundo	31
	<b>Total Tree Count</b>	127		Total Sq. Ft.	1,176

Table 3 – Area 2 Summary

#### Area 3

This section is another part of the larger, heavily wooded area on the south side of the property. It is bounded by Summer Street to the south, the assisted living facility to the north, Area 2 to the west, and Area 4 to the east. This area has a high concentration of mature trees, the majority of which are Norway maples. In this area there are dead tree standing in place as well as ones that have fallen.

This area is approximately 1.25 acre. It is one on the smaller areas in size but has a high tree volume. There is some accessibility from Summer Street as well as Symmes Road via Area 2.

Trees				Shrubs		
Common Name	Latin Name	Count	Common Name	Latin Name	Sq. Ft.	
Norway Maple	Acer platanoides	82	Tree of Heaven	Ailanthus altissima	199	
Black Locust	Robina pseudoacacia	17	Buckthorn	Rhamnus cathartica	145	
Tree of Heaven	Ailanthus altissima	6	Poison Ivy	Toxicodendron radicans	68	
Other/Dead	Various ssp.	3	Wild Rose	Rosa multiflora	60	
	<b>Total Tree Count</b>	108		Total Sq. Ft.	473	

*Table 4 – Area 3 Summary* 

#### Area 4

This section is part of the larger, heavily wooded area on the south side of the property. It is bounded by Summer Street to the south, the assisted living facility and Symmes Road to the north, Area 3 to the west and Area 5 to the east. This area has a high concentration of mature trees, the majority of which are Norway maples.

This area is approximately 1.5 acres. Access is challenging and it is critical that Areas 2 & 3 are cleared first to allow accessibility. There is no accessibility from Summer Street or Symmes Road for removal operations except through Areas 2 & 3.

Trees			Shrubs		
Common Name	Latin Name	Count	Common Name	Latin Name	Sq. Ft.
Norway Maple	Acer platanoides	82	Boxelder	Acer negundo	387
Black Locust	Robina pseudoacacia	12	Tree of Heaven	Ailanthus altissima	210
Tree of Heaven	Ailanthus altissima	4			
Boxelder	Acer negundo	3			
Buckthorn	Rhamnus cathartica	1			
Other/Dead	Various ssp.	4			
	<b>Total Tree Count</b>	106		Total Sq. Ft.	596

*Table 5 – Area 4 Summary* 

#### Area 5

This section is a combination of part of the larger, heavily wooded area on the south side of the property, as well as a more accessible area along the easter portion of the property adjacent to Symmes Circle and Old Hospital Road. It is bounded by residential properties to the south, Symmes Road to the north, Area 4 to the west and residential properties to the east. This area has a high a more diverse distribution of mature and smaller trees, the majority of which are Norway maples.

This area is approximately 2.25 acres. Of that, approximately 2 acres is adjacent and similar to area 4 while .25 acres is easily accessible via Symmes Circle and Old Hospital Road. Access the lower are challenging and will require passing through Areas 2, 3, & 4.

Trees			Shrubs		
Common Name	Latin Name	Count	Common Name	Latin Name	Sq. Ft.
Norway Maple	Acer platanoides	78	Tree of Heaven	Ailanthus altissima	4,063
Tree of Heaven	Ailanthus altissima	37	Knotweed	Fallopia japonica	712
Black Locust	Robina pseudoacacia	16	Boxelder	Acer negundo	302
Boxelder	Acer negundo	4			
Knotweed	Fallopia japonica	1			
Other/Dead	Various ssp.	1			
	<b>Total Tree Count</b>	137		Total Sq. Ft.	5,077

Table 6 – Area 5 Summary

## Discussion

## **Invasive Species Control**

The focus of this Plan is to remove the invasive plants in the CR and restore the site with native trees and shrubs. To achieve this goal, it is important to understand invasive species and effective management policies.

A widely accepted definition of invasive plant is "non-native species that have spread into native or minimally managed plant systems. These plants cause economic or environmental harm by developing self-sustaining populations and becoming dominant and/or disruptive to those systems."

The introduced invasive plants of greatest concern, both nationwide and to the Commonwealth of Massachusetts, have various biological traits providing them with competitive advantages over native species. In addition, having been transported out of their native environment, invasive plant species are free from the evolved, biological controls that manage population expansions and maintain biological diversity. Without these constraints, invasives have monopolized natural communities, displacing a wide range of native species in our region. This monopolization can have substantial economic consequences, can impact rare and endangered species, and can dramatically alter long-established balances of both species' composition and habitat qualities.

The changes accompanying invasions are often subtle, sometimes even visually attractive, so that the ecological problem they pose is not always immediately obvious. Many of these invaders have become so well established across our landscape that eradication of any given species may be highly impractical unless a new invasion is detected early. But this does not mean that nothing is possible. There is increasing momentum at the local, regional, and national levels to forge a meaningful response to the problem of invasive plants<sup>1</sup>.

To mount a successful strategy to combat invasive species a set of guidelines with clear steps needs to be recognized and adopted. The steps of this Plan incorporate:

- Prevention
- Control/Eradication
- Restoration

<sup>&</sup>lt;sup>1</sup> Final Report: Strategic Recommendations for Managing Invasive Plants in Massachusetts Massachusetts Invasive Plant Advisory Group, February 28, 2005

Prevention – While this site is already invaded prevention may seem a moot point. That may seem true for the existing population, but this plan includes monitoring of the site to minimize future invasive species from establishing on the site. Early detection and rapid response are key components to minimize new invasions.

Control & Eradication – In this location control and eradication go hand in hand. To achieve eradication the plants must obviously be removed from the location. Controls are then used to ensure that there is no resurgence of the invader. Controls will include, removing all wood and debris from the removals, grinding the stumps of the trees that are accessible, using herbicidal materials on the stems of the shrubs and vines as well as the stumps of trees that are not accessible.

Restoration – To have a site that is unhospitable to invasive plants in the best way to prevent an invasion. To achieve this a healthy, native landscape the site will be replanted with native trees and shrubs.

The population of invasive plants on the site very from trees to vines and shrubs. Different species, and even relative size of a plant within the species will require different strategies to affectively treat them. The reproduction cycle and methods of propagation must be considered. The state, size and location are also a factor.

This Plan is affective because it targets the elements that have made an invasion possible on this location as well as customizing the treatment approaches for the particular plant. The predominant invasive species the heavily wooded areas are the Norway maples (*Acer platanoides*). There has been some research into the allelochemical effects of Norway maples, that is the excretion of chemicals by the maples that "poison" the soil and kill or make it difficult for other trees to grow. The subject is much debated in the arboricultural community and there is no scientific proof that soil is "poisoned" by Norway maples. I believe a more reasonable explanation why Norway maples replace native species are abiotic in nature. Norway maples have thick and dense canopies which create a parasol effect, heavily shading the understory and forest floor. They also have robust and relatively shallow root systems, capturing water and outcompeting other species. These characteristics of Norway maples cause the native species to be shaded out and suffer from lack of water, causing the native species to die off as well as limit germination of new plants, all the while new Norway maple seedlings continue to germinate and develop. The fact that this site was a Norway maple in the nursery only exacerbated the situation. The most effective way to control Norway maples is simply to remove the plants and debris and grind the stumps where

possible so they can't regrate and form coppices. Stumps not accessible or are under 4 inches, should be treated with a contact herbicide at the point of the cut. These steps, followed by annual monitoring and removing new seedlings as they are detected, will be an effective control.

Boxelder (*Acer negundo*) is also in the maple family and reproduces similarly to Norway maples, seeds dropped and spread by wind and wildlife. Using control methods similar to Norway maples is appropriate.

The next two predominant invasive trees on the site are Tree of Heaven (*Ailanthus altissima*) and black locust (*Robina pseudoacacia*). These species have very active rhizomes, continuously growing horizontal underground stems which puts out lateral shoots and adventitious. They tend to reproduce by sending up new growth in the form of root suckers. They are frequently, but not always, in more sunny, exposed locations, along roadways or in open fields, where they receive adequate sunlight to develop. At Arlington 360 some mature specimens can be found in full growth, forested areas, but the majority are smaller caliper plants, along the driveway. The mature trees of these species tend to be isolated and within denser Norway maple groves. There is limited root sucker developing from them because like native species, the new plants can't survive under a Norway maple canopy. The mature Trees of Heaven and black locust should utilize the same control methods used for the Norway maples.

The smaller Trees of Heaven and black locust, located in more open areas, act more like other invasive shrubs; Japanese knotweed (*Fallopia japonica*), wild rose (*Rosa multiflora*) and poison ivy (*Toxicodendron radicans*). These plants reproduce via rhizomes. The use of herbicide is more critical with these trees due to the reproducing through the root system. All the plants should be cut and removed from the site and the cuts be treated with contact herbicide. Multiple years of removing and treating may be required to achieve affective control.

Buckthorn acts a bit differently. The challenge for controlling common buckthorn (*Rhamnus cathartica*) is the way it reproduces. When a buckthorn drops seeds, they can stay in the soil for several years before germinating. This can lend an appearance of control only to find a resurgence several years later. Continued monitoring of locations with buckthorn is crucial and continued treatments of removing and treating with herbicide are necessary.

## **Restoration Planting**

To reintroduce native species to the CR a restoration planting plan is included as part of this Plan. The Plan calls for the installation of 75 native trees and 25 native shrubs to be installed annually. Areas with steep grades will also be seeded with erosion reducing ground cover, such as a meadow mix. Like the removal schedule these are averages and the different Areas more appropriate and will receive more trees and shrubs and other areas less. The planting list is comprised of various trees including, oaks, maples, pines, birches, and elm. The native shrubs will include, serviceberry, winterberry, blueberry, Mt laurel, and others.

All trees will be 1.5-2" caliper and all shrubs will be 3 gal containers. The exact plant material used will be based on availability and may vary.

A project like this, where large populations of trees are being removed prior to replanting, deciding exact plant location is not practical. Plant placement should be field decided, once the invasives are removed. This approach also makes sense because the invasive removals will be scheduled in summer/fall months, with herbicide treatments immediately following. The plantings should take place the following spring, in preparation for a new growing season and when availability is at its peak.

That being said, once an Area has been cleared of invasive plants, a more accurate plan of plant location will be determined in conjunction with the installation plan of that Area.

## **Management Plan**

#### **Invasive Control**

The goal of this Plan is to produce a document that will serve as the roadmap to removing and control invasive species in the Summer Street Woods CR while reclaiming the space with native species and allowing for passive recreational use by the public. Completion of this Plan will render the site in compliance with the CR.

The Plan is designed to take a five-year approach to managing the forest. Due to the distribution of plants, available access to the various locations on the site, along with the different physiological traits of the species, each year's segment of the Plan is customized and varies from year to year.

Below is a summary of yearly benchmarks. Specific yearly details can be found later in this report.

	Trees	Shrubs	
Year	Count Sq. Ft.		
2023	187	3,098	
2024	127	1,176	
2025	108	473	
2026	106	596	
2027	137	5077	
Total	665	10,438	

In most cases the treatment of invasive shrubs, removed in previous years, will require additional monitoring and treatments in subsequent years.

Complete yearly invasive control specifications Can be found in Appendix C – Invasive Control Specification, pages 73 & 74.

#### Restoration

To ensure a successful planting campaign installation of new plants will be in the spring of for five consecutive years. Specific planting sites will be staked out by Consulting Arborist and landscape contractor based on field conditions. Consideration for planting locations will include leaving enough space to perform future invasive control in other Areas of the site.

Below is a summary of yearly benchmarks for new plantings, depending on final site review and availability.

	Trees	Shrubs		
Year	Count	Count		
2024	55	30		
2025	80	25		
2026	75	20		
2027	90	20		
2028	75	30		
Total	375	125		

Projected Plant List (based on availability)

Trees		Shrubs			
Common Name	Latin Name	Count	Common Name	Latin Name	Count
Red Oak	Quercus rubra	45	Shadblow Service Berry	Amelanchier canadensis	35
Swamp White Oak	Quercus bicolor	45	Winterberry	Ilex verticillata	35
White Oak	Quercus alba	45	Mt Laurel	Kalmia latifolia	15
Red Maple	Acer rubra	60	Lowbush Blueberry	Vaccinium angustifolium	20
Sugar Maple	Acer saccharum	60	Highbush Blueberry	Vaccinium corymbosum	20
White Pine	Pinus strobus	30			
River Birch	Betula nigra	30			
Jefferson Elm	Ulmus americana	30			
White Spruce	Picea glauca	30			
	<b>Total Tree Count</b>	375		<b>Total Shrub Count</b>	125

During planting soil will be amended with the addition of loam with organic matter and bio-char. Starter fertilizer will also be applied at time of planting. Plants will be supported, where needed for a period of one year, then supports shall be removed. Contingent on natural weather conditions the new plantings will be watered once a week for the first full growing seasons after the installation. The new plantings will be monitored for a period of two years after installation to ensure establishment and to prescribe and treatments that may be necessary. Full planting specifications are located in Appendix D - Planting Specifications, pages 75-78.

## **Glossary of Terms**

ASCA	American Society of Consulting Arborists, professional association of arborist specializing in arboricultural consulting
Branch Union	The structural union of a lateral branch to the tree stem.
Canopy  Certified Arborist	The part of the crown composed of leaves and small twigs. A professional arborist possessing current certification issued by the Massachusetts Arborists Association (MAA) and/or the International Society of Arboriculture (ISA)
Clinometer	A device used to measure the height of an object
Co-dominant	Stems or branches, equal in size and relative importance usually associated with either the trunk/stems or scaffold limbs/branches in the crown.
Crown	The upper part of a tree, measured from the lowest branch, including all the branches and foliage
DBH	Stands for Diameter Breast Height. The diameter of a tree measured at 4.5 feet above the ground.
Dripline	Perimeter of the area under a tree including the branches and leaves
Establishment	The process of a tree becoming acclimated to a new environment, usually correlating the new root development that can sustain normal biological functions of the tree
Included Bark	An inherent weak point where two or more stems grow independently pressing on one another
ISA	International Society of Arborists, a global, professional association of arborist
Level II Tree Risk	A visual assessment only. The tree is inspected from the Assessment ground only and diagnostic tools used
Level III Tree Risk Assessment	I more intensive inspection of the tree using diagnostic tool, such as a Resistograph and may also include inspection in the tree canopy
Parity	The time, usually in years, that it takes for a replacement tree to provide similar attributes and benefits of a removed tree
Pruning	Systematic removal of branches of a plant usually a woody perennial

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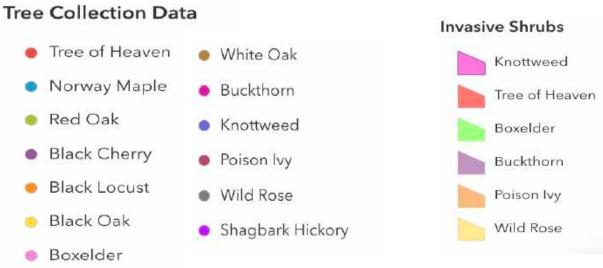
Lilly, S., Matheny, N., Smiley, E.T. 2011 Best Management Practices

Shigo, A. L. 1991. *Modern Arboriculture: A Systems Approach of The Care of Trees And Their Associates*. Shigo and Trees, Associates

## Appendix A - Maps

#### Full Site - Inclusive

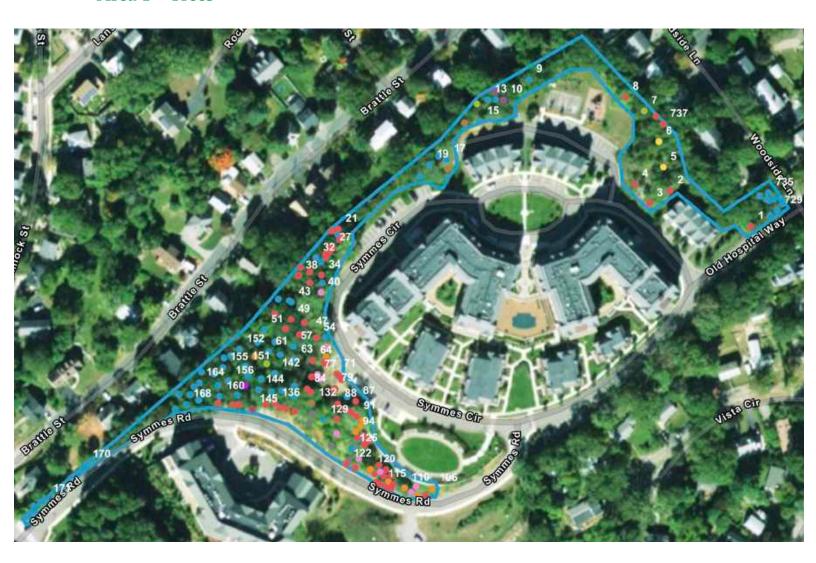




## Area 1 – Inclusive



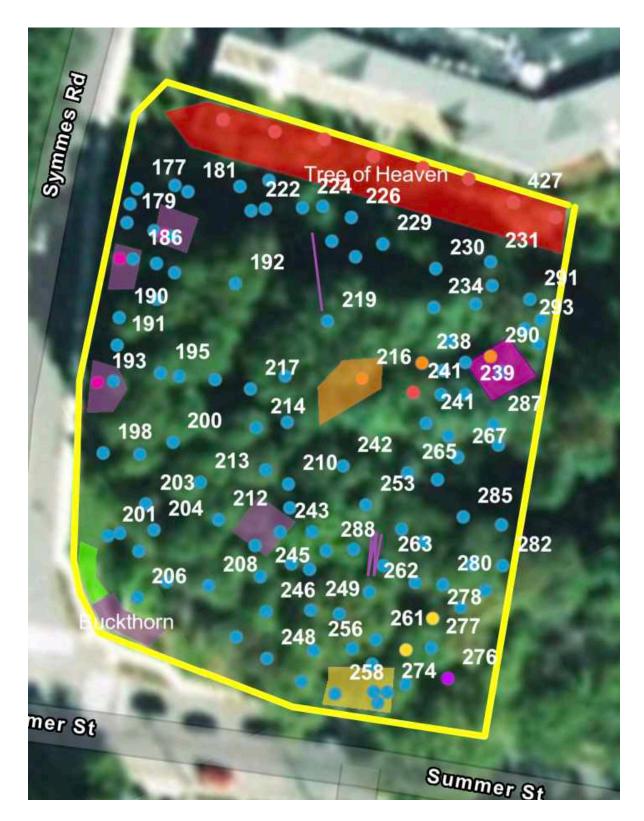
## Area 1 – Trees



## Area 1 – Shrubs



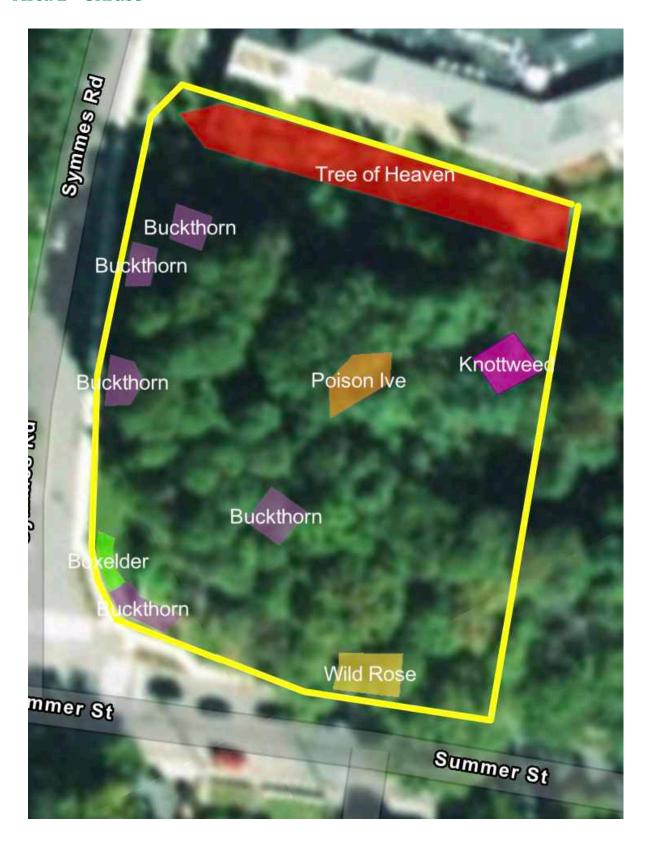
## Area 2 – Inclusive



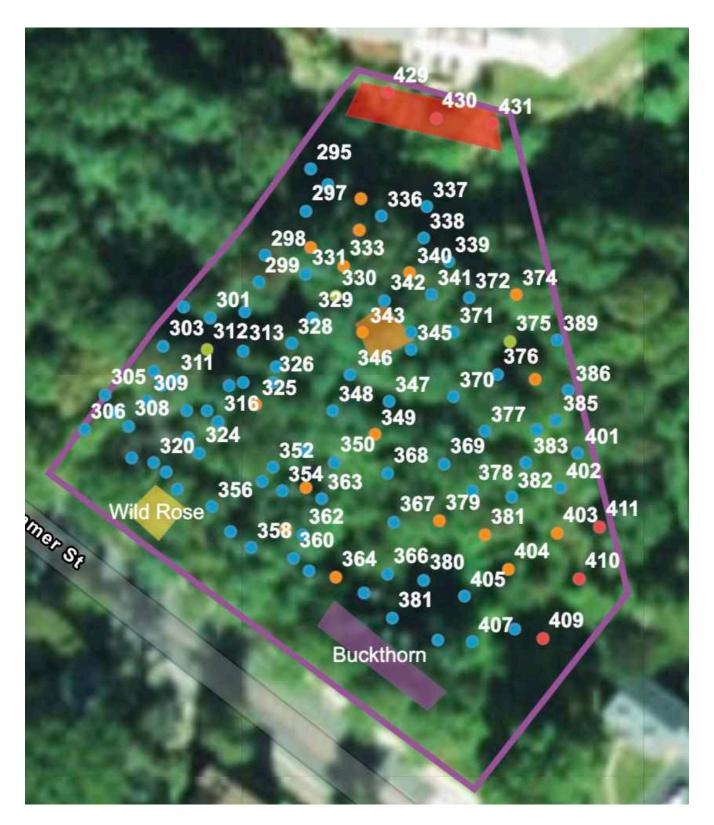
## Area 2 – Trees



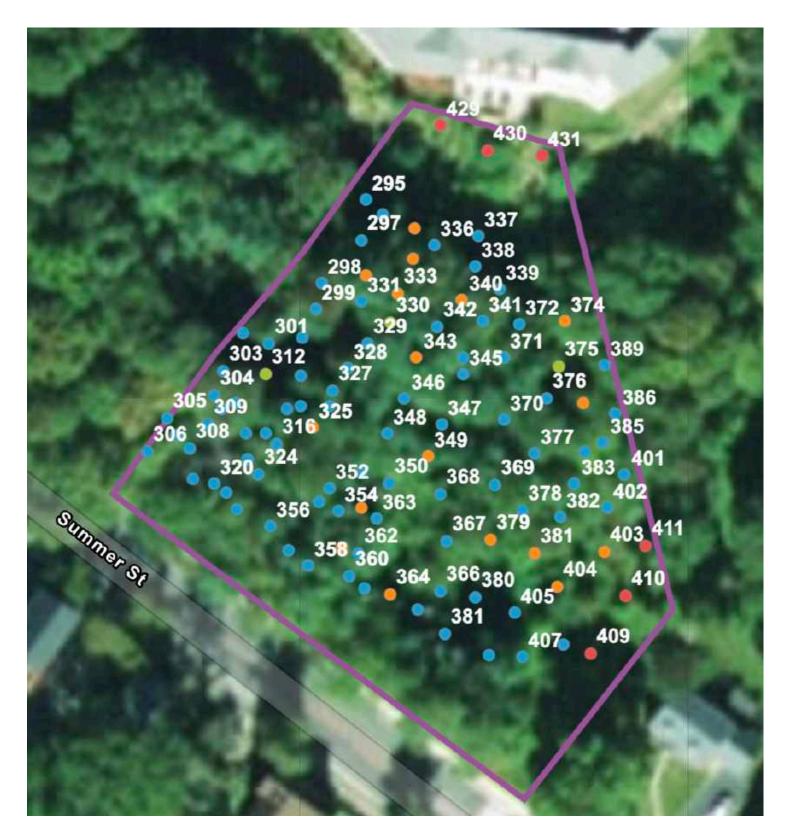
## Area 2 – Shrubs



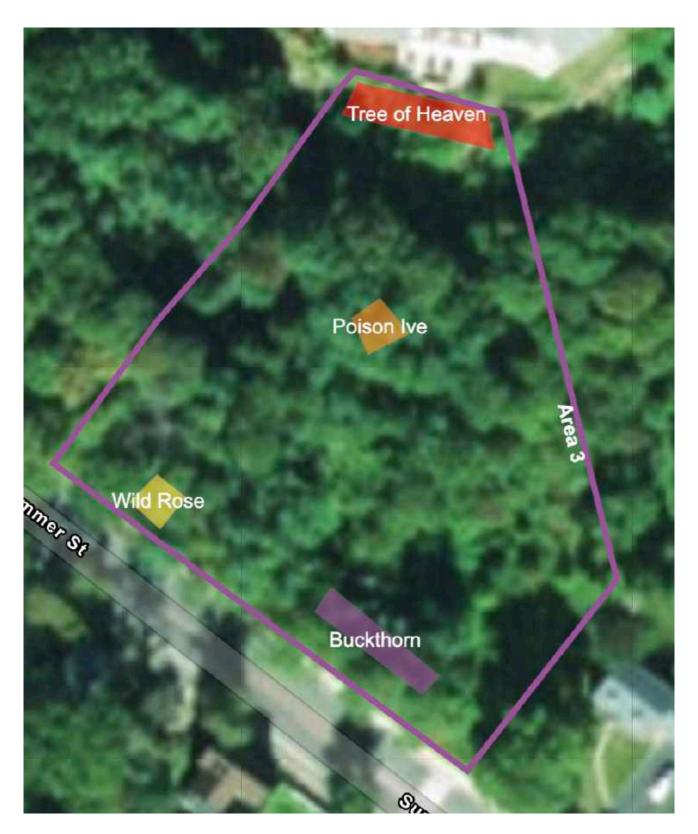
## Area 3 – Inclusive



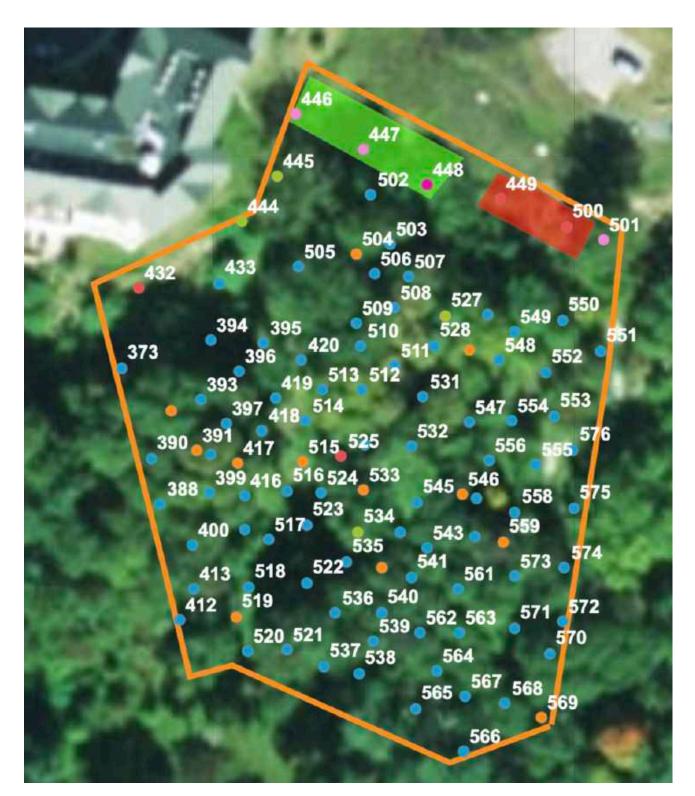
## Area 3 – Trees



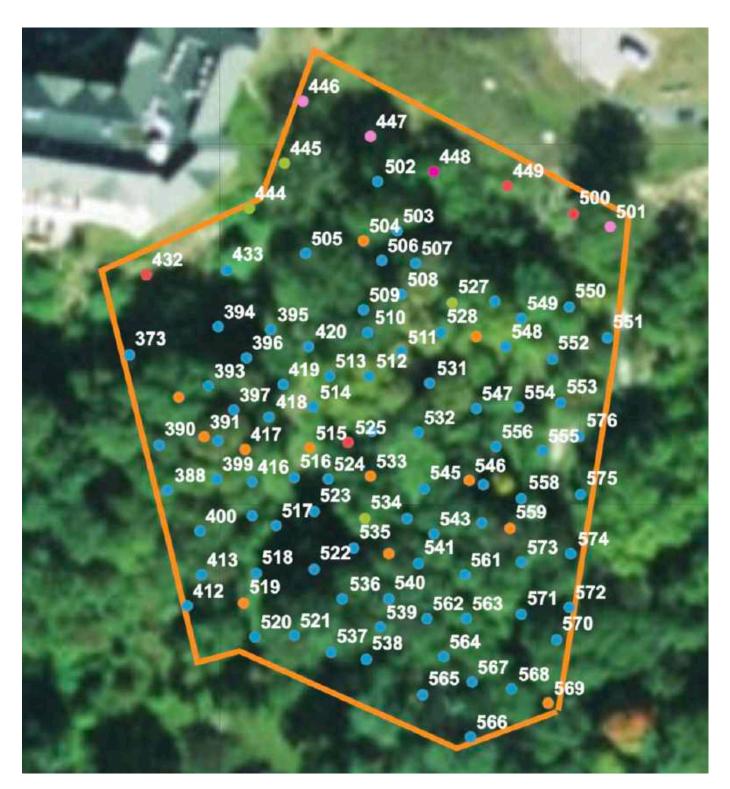
## Area 3 – Shrubs



#### Area 4 – Inclusive



#### Area 4 – Trees



## Area 4 – Shrubs



## Area 5 – Inclusive



## Area 5 – Trees



## Area 5 – Shrubs



# Appendix B –Inventory

## Master Tree List

_			L -		1.		
Tree #		Latin Name	DBH		Area	Latitude	Longitude
1	Tree of Heaven	Ailanthus altissima		Cluster of sapplings near driveway	1	42.42484566	-71.16019162
2	Tree of Heaven	Ailanthus altissima	15	Cluster on hillside	1	42.42492357	
3	Tree of Heaven	Ailanthus altissima	30	Cluster on hillside	1	42.42484303	-71.16084491
4	Tree of Heaven	Ailanthus altissima	20	Cluster on hillside	1	42.42491462	
5	Black Oak	Quercus velutina	10	Dead	1	42.42501893	-71.16081431
6	Black Oak	Quercus velutina	13	Dead	1	42.42513042	
7	Red Oak	Quercus rubra	16	Dying	1	42.42525299	-71.16101355
8	Tree of Heaven	Ailanthus altissima	26	Mature, remove?	1	42.42529952	-71.1611481
9	Norway Maple	Acer platanoides	10	-	1	42.42527324	-71.16176142
10	Black Cherry	Prunus serotina	7	Dead	1	42.42515385	
11	Black Cherry	Prunus serotina	9	Dead	1	42.42518267	-71.16195478
12	Norway Maple	Acer platanoides	5		1	42.42514781	-71.16194143
13	Norway Maple	Acer platanoides	5		1	42.42513953	-71.16198581
	Red Oak	Quercus rubra	6	Dead - on fence	1		-71.16204576
15	Norway Maple	Acer platanoides	3	-	1	42.42503218	-71.16200498
16	White Oak	Quercus alba	13	Dead	1	42.42500771	-71.16209452
17	Norway Maple	Acer platanoides	5	Saplings around	1	42.42482615	-71.16215634
18	Norway Maple	Acer platanoides	5		1	42.42483244	
	Norway Maple	Acer platanoides	3		1	42.42478359	
20	Norway Maple	Acer platanoides	5		1	42.42471841	-71.16229285
21	Tree of Heaven	Ailanthus altissima	10		1	42.4243958	-71.16271635
22	Tree of Heaven	Ailanthus altissima	10		1	42.42437938	
23	Tree of Heaven	Ailanthus altissima	10		1	42.42438142	-71.16273344
	Norway Maple	Acer platanoides	10		1		-71.16271178
25	Tree of Heaven	Ailanthus altissima	10		1	42.42436893	-71.16267893
26	Tree of Heaven	Ailanthus altissima	9		1	42.4243465	-71.16269425
27	Tree of Heaven	Ailanthus altissima	12		1	42.4243036	-71.16272655
28	Tree of Heaven	Ailanthus altissima	11		1	42.42429974	
29	Tree of Heaven	Ailanthus altissima	8		1	42.42427851	-71.16273884
30	Tree of Heaven	Ailanthus altissima	10		1	42.42426774	
31	Tree of Heaven	Ailanthus altissima	9		1	42.42425213	-71.1627573
32	Norway Maple	Acer platanoides	4		1	42.42424185	
33	Norway Maple	Acer platanoides	5		1	42.42422937	-71.1627773
34	Tree of Heaven	Ailanthus altissima	12		1	42.42416802	
35	Tree of Heaven	Ailanthus altissima	12		1	42.42416952	-71.16282845
36	Norway Maple	Acer platanoides	8		1	42.42413379	-71.16273892
37	Tree of Heaven	Ailanthus altissima	13		1	42.42418151	-71.16289344
38	Tree of Heaven	Ailanthus altissima	11		1	42.42414005	-71.1628957
39	Tree of Heaven	Ailanthus altissima	_	Stump	1	42.42412232	-71.16281402
40	Boxelder	Acer negundo	24	Cluster of three	1	42.42409199	
41	White Oak	Quercus alba	18	Dead	1	42.42478249	-71.16213314
42	Tree of Heaven	Ailanthus altissima	14		1	42.42402317	-71.1627737
43	Norway Maple	Acer platanoides	8		1	42.42401581	-71.16290217
	Norway Maple	Acer platanoides	6		1		-71.16291766
45	Norway Maple	Acer platanoides	8		1		-71.16298457
46	Tree of Heaven	Ailanthus altissima	10		1	42.42400268	
47	Tree of Heaven	Ailanthus altissima	15	Stump	1	42.42393795	-71.16271515
48	Tree of Heaven	Alianthus altisma	12		1	42.42393604	-71.16279222
49	Tree of Heaven	Alianthus altisma	10		1	42.42393703	-71.16287985
50	Tree of Heaven	Alianthus altisma	10		1	42.42394294	-71.16298395
51	Norway Maple	Acer platanoides	10		1	42.42386079	-71.16302617
52	Tree of Heaven	Alianthus altisma	11		1	42.42388945	-71.16289946
53	Tree of Heaven	Alianthus altisma	11		1	42.42387644	-71.16280187
54	Tree of Heaven	Alianthus altisma	12		1	42.42387903	-71.16269746
55	Norway Maple	Acer platanoides	20	5-Stem cluster	1	42.42389276	-71.16264281
56	Boxelder	Acer negundo	4		1	42.42384941	-71.16262116
57	Norway Maple	Acer platanoides	16		1	42.42381754	-71.16282508

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Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
	Norway Maple	Acer platanoides	14	Notes 1	1	42.42381611	-71.16294318
	Norway Maple	Acer platanoides	14		1	42.42379849	-71.1630519
	Black Locust	Robinia pseudoacacia	13		1	42.42373158	-71.16304551
	Norway Maple	Acer platanoides	7		1	42.42376722	-71.16296773
	Norway Maple	Acer platanoides	7		1	42.42376661	-71.1628949
	Norway Maple	Acer platanoides	7		1	42.42375777	-71.16280449
	Tree of Heaven	Ailanthus altissima	26		1	42.42377316	-71.1626861
	Black Locust	Robinia pseudoacacia	4		1	42.42380421	-71.162631186
	Red Oak	Quercus rubra	30	Dead	1	42.42370812	-71.16296363
	Tree of Heaven	Ailanthus altissima	2	Dead	1	42.42370812	-71.16259909
	Tree of Heaven	Ailanthus altissima	2		1	42.42377548	-71.16259403
	Tree of Heaven	Ailanthus altissima	2		1	42.42377717	-71.16261288
-	Tree of Heaven	Ailanthus altissima	2		1	42.42377162	
	Tree of Heaven	Ailanthus altissima	2		1	42.42377102	-71.1625177
	Tree of Heaven	Ailanthus altissima	2		1	42.42373792	-71.16250956
	Tree of Heaven	Ailanthus altissima	2		1	42.42373309	-71.16249957
	Tree of Heaven	Ailanthus altissima	2		1	42.42372388	-71.16248939
	Tree of Heaven	Ailanthus altissima	2		1		
	Tree of Heaven	Ailanthus altissima	4		1	42.42371928 42.42369785	-71.16247972 -71.16266871
	Boxelder	Acer negundo	5		1	42.42309783	-71.16263433
	Boxelder	Acer negundo  Acer negundo	4		1	42.42371577	-71.16263433
		Ailanthus altissima	2			42.42369952	
	Tree of Heaven	Ailanthus aitissima			1		-71.1625151
	Tree of Heaven		2		1	42.42366948	-71.16250971
	Tree of Heaven	Ailanthus altissima	2		1	42.42366566	-71.16251466
	Tree of Heaven	Ailanthus altissima	2		1	42.42366499	
	Tree of Heaven	Ailanthus altissima	2		1	42.42366108	-71.16251382
	Tree of Heaven	Ailanthus altissima	6		1	42.42363768	-71.1626781
	Tree of Heaven	Ailanthus altissima	3		1	42.42362533	-71.16265387
	Norway Maple	Acer platanoides	8		1	42.42364843	-71.16242065
	Tree of Heaven	Ailanthus altissima	6		1	42.42363586	-71.16236069
	Tree of Heaven	Ailanthus altissima	14		1	42.42360297	-71.16246791
	Tree of Heaven	Ailanthus altissima	13		1	42.42358911	-71.16241829
	Tree of Heaven	Ailanthus altissima	12		1	42.42357822	-71.16237135
	Tree of Heaven	Ailanthus altissima	10		1	42.42356931	-71.16233514
	Black Locust	Robinia pseudoacacia	5		1	42.42355446	
	Black Locust	Robinia pseudoacacia	7		1	42.42352675	-71.16230027
	Black Locust	Robinia pseudoacacia	6		1	42.42349804	
	Tree of Heaven	Ailanthus altissima	2		1	42.42348884	-71.16226535
	Tree of Heaven	Ailanthus altissima	2		1	42.42348092	-71.16224657
	Tree of Heaven	Ailanthus altissima	2		1	42.42346706	-71.16223048
	Tree of Heaven	Ailanthus altissima	2		1	42.42347399	
	Norway Maple	Acer platanoides	6		1	42.42346508	-71.1622868
100	Tree of Heaven	Ailanthus altissima	2		1		-71.16225328
	Tree of Heaven	Ailanthus altissima	2		1		-71.16224389
	Tree of Heaven	Ailanthus altissima	4		1	42.42336768	-71.16212607
	Tree of Heaven	Ailanthus altissima	4		1	42.4233558	-71.16207779
	Tree of Heaven	Ailanthus altissima	3		1	42.42333204	
	Boxelder	Acer negundo	14		1	42.42331485	-71.1618714
	Black Locust	Robinia pseudoacacia	4		1	42.42332084	-71.16176705
	Tree of Heaven	Ailanthus altissima	2		1	42.42328515	-71.16179898
	Black Locust	Robinia pseudoacacia	3		1	42.42327525	-71.16184726
	Boxelder	Acer negundo	3		1	42.42328119	-71.16189286
	Black Locust	Robinia pseudoacacia	12		1	42.42329307	-71.16194114
	Tree of Heaven	Ailanthus altissima	3		1	42.4232767	-71.16201837
	Tree of Heaven	Ailanthus altissima	5		1	42.42329662	-71.16201392
	Tree of Heaven	Ailanthus altissima	5		1	42.42327922	-71.16204513
114	Black Locust	Robinia pseudoacacia	12		1	42.42330708	-71.1620462

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		1	1	T	1		
Tree #		Latin Name	DBH	Notes 1	Area	Latitude	Longitude
115	Tree of Heaven	Ailanthus altissima	5		1	42.4232857	-71.16209105
116	Tree of Heaven	Ailanthus altissima	4		1	42.42329176	-71.16212064
117	Tree of Heaven	Ailanthus altissima	3		1	42.4233261	-71.16208316
118	Boxelder	Acer negundo	4		1	42.42333996	-71.16211266
119	Tree of Heaven	Ailanthus altissima	3		1	42.4233261	-71.16214485
120	Black Locust	Robinia pseudoacacia	12		1	42.42333996	-71.16217704
121	Tree of Heaven	Ailanthus altissima	3		1	42.42333402	-71.16227091
122	Tree of Heaven	Ailanthus altissima	3		1	42.42333996	-71.1623326
123	Wild Rose	Rosa multiflora	10	Cluster	1	42.42336174	-71.16231919
124	Boxelder	Acer negundo	5		1	42.42337758	-71.16226287
125	Norway Maple	Acer platanoides	15		1	42.42341718	-71.16231383
126	Wild Rose	Rosa multiflora		Cluster	1	42.4234091	-71.162451
127	Boxelder	Acer negundo	15		1	42.42346723	-71.16243362
128	Tree of Heaven	Ailanthus altissima	11		1	42.42353693	-71.16245544
129	Norway Maple	Acer platanoides	12		1	42.42351744	-71.16253351
130	Wild Rose	Rosa multiflora	10	Cluster	1	42.42348722	-71.16261337
131	Wild Rose	Rosa multiflora	10	Cluster	1	42.42352981	-71.16260825
132	White Oak	Quercus alba	18	Dead	1	42.42358097	-71.16263284
133	Tree of Heaven	Ailanthus altissima	2		1	42.42352296	-71.16272231
134	Tree of Heaven	Ailanthus altissima	3		1	42.42352916	-71.16277616
135	Tree of Heaven	Ailanthus altissima	3		1	42.42352322	-71.16281908
136	Tree of Heaven	Ailanthus altissima	3		1	42.42354104	-71.16285931
137	Tree of Heaven	Ailanthus altissima	3		1	42.4235252	-71.16291295
138	Norway Maple	Acer platanoides	5		1	42.42359161	-71.1627519
139	Norway Maple	Acer platanoides	4		1	42.42364012	-71.16276128
140	Norway Maple	Acer platanoides	7		1	42.4236025	-71.16283236
141	Norway Maple	Acer platanoides	5		1	42.42358666	-71.16289539
142	Norway Maple	Acer platanoides	6		1	42.42367278	-71.16290076
143	Norway Maple	Acer platanoides	7		1	42.42363517	-71.1629772
144	Norway Maple	Acer platanoides	4		1	42.42358171	-71.16297452
145	Poison Ivy	Toxicodendron radicans	10	Cluster	1	42.42348757	-71.16298339
146	Tree of Heaven	Ailanthus altissima	3		1	42.42349551	-71.16307561
147	Tree of Heaven	Ailanthus altissima	3		1	42.42348858	-71.16311316
148	Norway Maple	Acer platanoides	7		1	42.42353617	-71.16309656
149	Shagbark Hickory	Carya ovata	12	Dead	1	42.42358565	-71.1630681
150	Norway Maple	Acer platanoides	6		1	42.42363418	-71.16306035
151	Norway Maple	Acer platanoides	6		1	42.42367377	-71.16309254
152	Norway Maple	Acer platanoides	7		1	42.42374604	-71.1631502
153	Norway Maple	Acer platanoides	5		1	42.42370941	-71.16319312
154	Norway Maple	Acer platanoides	8		1	42.4236906	-71.16323201
155	Norway Maple	Acer platanoides	12		1	42.42364804	-71.16322799
156	Norway Maple	Acer platanoides	6		1	42.4235926	-71.163173
157	Norway Maple	Acer platanoides	6		1	42.42360545	-71.16327195
158	Norway Maple	Acer platanoides	5		1	42.4236025	-71.16335271
	Norway Maple	Acer platanoides	4		1	42.42355894	
160	Norway Maple	Acer platanoides	7		1	42.42351142	-71.16320385
161	Tree of Heaven	Ailanthus altissima	3		1	42.42348165	-71.16320302
	Norway Maple	Acer platanoides	4		1	42.4234718	-71.16332828
163	Norway Maple	Acer platanoides	4		1	42.42350845	-71.16330309
	Norway Maple	Acer platanoides	8		1	42.42355201	-71.16334869
165	Norway Maple	Acer platanoides	5		1	42.42352724	-71.16337522
166	Norway Maple	Acer platanoides	11		1	42.42348766	-71.16338758
	Norway Maple	Acer platanoides	7		1	42.42347477	-71.16345702
168	Norway Maple	Acer platanoides	11		1	42.42344111	-71.1634007
169	Norway Maple	Acer platanoides	8		1	42.42340542	-71.16345649
170	Norway Maple	Acer platanoides	8		1	42.42305997	-71.16392775
171	Norway Maple	Acer platanoides	8		1	42.42286296	-71.16412355
	,	F 2.000		I .			

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Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
172	Norway Maple	Acer platanoides	17	Notes 1	1	42.42284663	-71.16414903
173	Norway Maple	Acer platanoides	17		1	42.42281742	-71.16414903
174	Norway Maple	Acer platanoides	9		1	42.42279614	-71.16417049
175	Norway Maple	Acer platanoides	10		1	42.42277238	-71.16419664
176	Norway Maple	Acer platanoides	7		1	42.42276495	-71.16421341
177	Norway Maple	Acer platanoides	14		2	42.42308064	-71.16366586
178	Norway Maple	Acer platanoides	6		2	42.42306876	-71.16368732
179	Norway Maple	Acer platanoides	5		2	42.42304995	-71.16370743
180	Norway Maple	Acer platanoides	10		2	42.42306183	-71.16361087
181	Norway Maple	Acer platanoides	10		2	42.42304797	-71.16359612
182	Norway Maple	Acer platanoides	6		2	42.42301183	-71.16365312
183	Buckthorn	Rhamnus cathartica	10		2	42.42301728	-71.16366049
184	Norway Maple	Acer platanoides	10		2	42.42302619	-71.16367391
185	Buckthorn	Rhamnus cathartica	10		2	42.42301728	-71.16374364
186	Norway Maple	Acer platanoides	12		2	42.42300837	-71.16372487
187	Norway Maple	Acer platanoides	13		2	42.42299055	-71.16369536
188	Norway Maple	Acer platanoides	9		2	42.42297075	-71.16367793
189	Norway Maple	Acer platanoides	14		2	42.42295293	-71.16372219
190	Norway Maple	Acer platanoides	12		2	42.4229559	-71.16378991
191	Norway Maple	Acer platanoides	10		2	42.42292818	-71.16381539
192	Norway Maple	Acer platanoides	14		2	42.42292521	-71.1635988
193	Buckthorn	Rhamnus cathartica	6		2	42.42289918	-71.16387005
194	Norway Maple	Acer platanoides	16		2	42.42289155	-71.16384624
195	Norway Maple	Acer platanoides	12		2	42.42287373	-71.16377315
196	Norway Maple	Acer platanoides	5		2	42.42285987	-71.16374901
197	Norway Maple	Acer platanoides	8		2	42.42283611	-71.16370207
198	Norway Maple	Acer platanoides	12		2	42.42282225	-71.16391597
199	Norway Maple	Acer platanoides	9		2	42.42280146	-71.16386568
200	Norway Maple	Acer platanoides	5		2	42.42279454	-71.16380837
201	Norway Maple	Acer platanoides	12		2	42.42273315	-71.1639723
202	Norway Maple	Acer platanoides	12	Dead	2	42.42272919	-71.16395353
203	Norway Maple	Acer platanoides	13		2	42.42274602	-71.16389519
204	Norway Maple	Acer platanoides	12		2	42.42271335	-71.16390189
205	Norway Maple	Acer platanoides	14		2	42.42269949	-71.16393944
206	Norway Maple	Acer platanoides	12		2	42.42265296	-71.16397699
207	Norway Maple	Acer platanoides	8		2	42.42265296	-71.16392469
208	Norway Maple	Acer platanoides	14		2	42.42262425	-71.16386837
209	Norway Maple	Acer platanoides	12		2	42.42265989	-71.16369268
210	Norway Maple	Acer platanoides	9		2	42.42268563	-71.16367659
211	Norway Maple	Acer platanoides	10		2	42.42271434	-71.16369804
212	Norway Maple	Acer platanoides	6		2	42.4226886	-71.16380399
213	Norway Maple	Acer platanoides	11		2	42.42273711	-71.16379997
214	Norway Maple	Acer platanoides	12		2	42.42276384	-71.16367927
215	Norway Maple	Acer platanoides	8		2	42.42275196	
216	Black Locust	Robinia pseudoacacia	15		2	42.42275543	-71.16349286
217	Norway Maple	Acer platanoides	13		2	42.42280641	-71.16365915
218	Norway Maple	Acer platanoides	9		2	42.42280196	-71.1635988
219	Norway Maple	Acer platanoides	60	Multi-stem	2	42.42283413	-71.16349822
220	Norway Maple	Acer platanoides	4		2	42.4230247	-71.16351834
221	Norway Maple	Acer platanoides	4		2	42.42301579	-71.16347408
222	Norway Maple	Acer platanoides	4		2	42.42299401	-71.16352102
223	Norway Maple	Acer platanoides	4		2	42.42298807	-71.16349956
224	Norway Maple	Acer platanoides	5		2	42.42296827	-71.16344592
225	Norway Maple	Acer platanoides	5		2	42.42295738	-71.16341641
226	Norway Maple	Acer platanoides	10	Dead	2	42.42292967	-71.16338423
227	Norway Maple	Acer platanoides	5		2	42.4229168	-71.16342982
228	Norway Maple	Acer platanoides	7		2	42.42288611	-71.16340837

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Troo #	Common Nama	Latin Nama	DDL	Notes 1	A r.o.o.	Latituda	Longitude
Tree #	Norway Maple	Latin Name Acer platanoides	DBF 6	Notes 1	Area 2	Latitude 42.42288413	-71.16336009
230	Norway Maple	Acer platanoides	12		2	42.42200413	-71.10550009
231	Norway Maple	Acer platanoides	36	Triple-Stem	2	42.42280562	-71.16322194
232	Norway Maple	Acer platanoides	8	Thiple-stelli	2	42.42277895	-71.16323898
233	Norway Maple	Acer platanoides	4		2	42.42277004	-71.16327653
234	Norway Maple	Acer platanoides	10		2	42.42278879	-71.16333728
235	Norway Maple	Acer platanoides	16		2	42.42274628	-71.16334091
236	Norway Maple	Acer platanoides	10		2	42.4227146	-71.1633342
237	Norway Maple	Acer platanoides	11		2	42.42271856	-71.16337309
238	Black Locust	Robinia pseudoacacia	16		2	42.42273737	-71.16339723
239	Norway Maple	Acer platanoides	6		2	42.42267995	-71.16335968
240	Norway Maple	Acer platanoides	6		2	42.4226948	-71.16339455
241	Tree of Heaven	Ailanthus altissima	14		2	42.42271259	-71.16343066
241	Norway Maple	Acer platanoides	10		2	42.422672	-71.16343737
242	Norway Maple	Acer platanoides	11		2	42.42267497	-71.16358623
243	Norway Maple	Acer platanoides	10		2	42.42264032	-71.16372704
244	Norway Maple	Acer platanoides	4		2	42.42264131	-71.16377264
245	Norway Maple	Acer platanoides	5		2	42.42260468	-71.16378739
246	Norway Maple	Acer platanoides	8		2	42.42256535	-71.16380533
247	Norway Maple	Acer platanoides	7		2	42.42255595	-71.16386702
248	Norway Maple	Acer platanoides	14		2	42.42251536	-71.1638402
249	Norway Maple	Acer platanoides	8		2	42.42254132	-71.16374314
250	Norway Maple	Acer platanoides	4		2	42.42258488	-71.16371229
251	Norway Maple	Acer platanoides	4		2	42.42260171	-71.16373509
252	Norway Maple	Acer platanoides	9		2	42.42262349	-71.16368011
253	Norway Maple	Acer platanoides	13		2	42.42262052	-71.16358489
254	Norway Maple	Acer platanoides	5		2	42.42258092	-71.16363585
255	Norway Maple	Acer platanoides	9		2	42.42252251	-71.16370425
256	Norway Maple	Acer platanoides	18		2	42.42249875	-71.16376996
257	Norway Maple	Acer platanoides	8		2	42.42247202	-71.16380885
258	Norway Maple	Acer platanoides	10		2	42.42244034	-71.16377264
259	Norway Maple	Acer platanoides	8		2	42.42247796	-71.16371229
260	Norway Maple	Acer platanoides	7		2	42.42245024	-71.16369754
261	Norway Maple	Acer platanoides	7		2	42.42247499	-71.16367206
262	Norway Maple	Acer platanoides	10		2	42.42252845	-71.16364658
263	Norway Maple	Acer platanoides	7		2	42.42254825	-71.16360501
264	Norway Maple	Acer platanoides	12		2	42.42257597	-71.16355136
265	Norway Maple	Acer platanoides	14		2	42.42263042	-71.16350174
266	Norway Maple	Acer platanoides	8		2	42.42264728	-71.16341601
267	Norway Maple	Acer platanoides	14		2	42.42261858	-71.16341735
268	Norway Maple	Acer platanoides	10		2	42.42260769	-71.16346295
269	Norway Maple	Acer platanoides	9		2	42.42255023	-71.1635299
270	Norway Maple	Acer platanoides	4		2	42.42251162	-71.16357416
	Black Oak	Quercus velutina	50	Dead	2	42.42244727	-71.16363853
272	Norway Maple	Acer platanoides	9		2	42.42242054	-71.16371632
273	Norway Maple	Acer platanoides	4		2	42.42240668	-71.163719
274	Norway Maple	Acer platanoides	7		2	42.42241262	-71.16369754
	Norway Maple	Acer platanoides	6		2	42.42241163	-71.16366535
276	Shagbark Hickory	Carya ovata	4	Dead	2	42.42239282	-71.16359964
277	Norway Maple	Acer platanoides	7	Dood	2	42.4224344	-71.16360098
278	Black Oak	Quercus velutina	30	Dead	2	42.4224641	-71.1635755
279	Norway Maple	Acer platanoides	16		2	42.42245968	-71.16352799
280	Norway Maple	Acer platanoides Acer platanoides	10		2	42.42249479	-71.16353661
281 282	Norway Maple Norway Maple	Acer platanoides  Acer platanoides	4		2	42.42246463 42.42248047	-71.16347971
	Norway Maple	Acer platanoides  Acer platanoides	12		2	42.42248047	-71.16343545 -71.16347837
283 284	Norway Maple	Acer platanoides  Acer platanoides	7		2	42.4224973	-71.16347837
<b>404</b>	ivoi way iviapie	Acei piatanolues	/			42.42232304	-/1.10340/29

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			1				
Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
285	Norway Maple	Acer platanoides	4		2	42.42255274	-71.16345557
286	Norway Maple	Acer platanoides	4		2	42.42260818	-71.16335097
287	Norway Maple	Acer platanoides	12		2	42.42263293	-71.16334158
288	Norway Maple	Acer platanoides	12		2	42.42259478	-71.16367474
289	Knotweed	Fallopia japonica	10		2	42.4226849	-71.16329129
290	Black Locust	Robinia pseudoacacia	15		2	42.42270668	-71.16329531
291	Norway Maple	Acer platanoides	4		2	42.42274331	-71.16319607
292	Norway Maple	Acer platanoides	5		2	42.42271559	-71.16319607
293	Norway Maple	Acer platanoides	6		2	42.42271658	-71.16322557
294	Norway Maple	Acer platanoides	4		2	42.42269183	-71.16321753
	Norway Maple	Acer platanoides	6		3	42.42270048	-71.16313662
296	Norway Maple	Acer platanoides	6		3	42.42268068	-71.16310577
297	Norway Maple	Acer platanoides	14		3	42.42264801	-71.16314332
298	Norway Maple	Acer platanoides	9		3	42.42259158	-71.1632144
299	Norway Maple	Acer platanoides	4		3	42.42255792	-71.16322513
300	Norway Maple	Acer platanoides	9		3	42.4225203	-71.16324927
	Norway Maple	Acer platanoides	10		3	42.42251337	-71.16330828
302	Norway Maple	Acer platanoides	6		3	42.42252601	-71.16335231
303	Norway Maple	Acer platanoides	4		3	42.4224775	-71.16338718
304	Norway Maple	Acer platanoides	4		3	42.42244582	-71.16340461
	Norway Maple	Acer platanoides	5		3	42.42241612	-71.16348776
306	Norway Maple	Acer platanoides	11		3	42.42237256	-71.16352263
	Norway Maple	Acer platanoides	8		3	42.42239434	-71.16347166
308	Norway Maple	Acer platanoides	8		3	42.42237652	-71.16344618
309	Norway Maple	Acer platanoides	7		3	42.4224082	-71.16341534
310	Norway Maple	Acer platanoides	12		3	42.42242701	-71.16338986
311	Norway Maple	Acer platanoides	4		3	42.42243493	-71.16336706
312	Red Oak	Quercus rubra	50	Dead	3	42.42247377	-71.1633123
313	Norway Maple	Acer platanoides	5		3	42.42247179	-71.16325061
314	Norway Maple	Acer platanoides	10		3	42.4224312	-71.16325195
315	Norway Maple	Acer platanoides	6		3	42.42242724	-71.16327475
316	Norway Maple	Acer platanoides	10		3	42.42238269	-71.16329487
	Norway Maple	Acer platanoides	11		3	42.42239655	-71.16331364
318	Norway Maple	Acer platanoides	8		3	42.42239556	-71.16334851
319	Norway Maple	Acer platanoides	5		3	42.42233716	-71.16344105
320	Norway Maple	Acer platanoides	10		3	42.42233023	-71.1634035
321	Norway Maple	Acer platanoides	8		3	42.42231835	-71.16338338
322	Norway Maple	Acer platanoides	10		3	42.42229657	-71.16336326
	Norway Maple	Acer platanoides	18		3	42.4223629	-71.16334583
324	Norway Maple	Acer platanoides	10		3	42.4223431	-71.16332571
325	Black Locust	Robinia pseudoacacia	12		3	42.42240348	-71.16322915
326	Norway Maple	Acer platanoides	4		3	42.42243219	-71.16319965
	Norway Maple	Acer platanoides	12		3	42.42245199	-71.16319428
	Norway Maple	Acer platanoides	6		3	42.4224807	-71.1631688
	Norway Maple	Acer platanoides	8		3	42.42251337	-71.16313394
330	Red Oak	Quercus rubra		Dead	3	42.42254109	-71.1630937
331	Norway Maple	Acer platanoides	5		3	42.42256782	-71.16314466
332	Black Locust	Robinia pseudoacacia	12		3	42.42260247	-71.16313528
	Black Locust	Robinia pseudoacacia	16		3	42.42257871	-71.16308029
334	Black Locust	Robinia pseudoacacia	11		3	42.42262326	-71.16305347
	Black Locust	Robinia pseudoacacia	12		3	42.42266286	-71.16305079
336	Norway Maple	Acer platanoides	12		3	42.42264108	-71.16301592
337	Norway Maple	Acer platanoides	12		3	42.42265324	-71.1629362
338	Norway Maple	Acer platanoides	10		3	42.42261275	-71.16294229
	Norway Maple	Acer platanoides	10		3	42.42258414	-71.16289887
340	Black Locust	Robinia pseudoacacia	12		3	42.42256988	-71.16296541
341	Norway Maple	Acer platanoides	9		3	42.42254157	-71.16292972

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Tec#   Common Name		T					1	
Black Locust	Tree #		Latin Name	DBH	Notes 1		Latitude	Longitude
Morway Maple			•					
Morway Maple   Acer platanoides   8   Dual-stem   3   42,42247327   77.16296364			•					
347 Norway Maple   Acer platanoides   7   3   42,42246146   71,16300725   348 Norway Maple   Acer platanoides   8   3   42,42226696   71,16300255   348 Norway Maple   Acer platanoides   7   3   42,42236539   71,1630931   349			<u> </u>					
348   Norway Maple   Acer platanoides   8   3   42,422260596   71,163002534   348   Norway Maple   Acer platanoides   7   3   42,42236539   71,16302534   350   Norway Maple   Acer platanoides   7   3   42,42236539   71,16302534   351   Norway Maple   Acer platanoides   7   3   42,4223415   71,16302534   352   Norway Maple   Acer platanoides   4   3   42,4223418   71,1631428   353   Norway Maple   Acer platanoides   4   3   42,4223438   71,1631428   354   Norway Maple   Acer platanoides   7   3   42,4223438   71,16314268   355   Rorway Maple   Acer platanoides   7   3   42,42223333   71,16314264   356   Norway Maple   Acer platanoides   7   3   42,42223333   71,16314264   357   Norway Maple   Acer platanoides   8   3   42,4222333   71,1631426   358   Rorway Maple   Acer platanoides   8   3   42,4222347   71,1631406   359   Back Locust   Robina pseudosacaia   6   3   42,4222347   71,1631406   360   Norway Maple   Acer platanoides   8   3   42,4222331   71,1632707   379   Back Locust   Robina pseudosacaia   6   3   42,4222331   71,16312763   360   Norway Maple   Acer platanoides   6   3   42,4222331   71,16312763   361   Norway Maple   Acer platanoides   6   3   42,4222331   71,16312763   362   Norway Maple   Acer platanoides   6   3   42,4222340   71,163136612   363   Norway Maple   Acer platanoides   8   3   42,4222340   71,163136612   364   Robina   Robina			•		Dual-stem			
349   Black Locust   Robinia pseudoacacia   16   3   3   24.2239607   7-1.16309911   349   Black Locust   Robinia pseudoacacia   16   3   3   24.2423455   7-1.16309573   3551   Norway Maple   Acer pitatnoides   7   3   3   24.2423455   7-1.16309573   3552   Norway Maple   Acer pitatnoides   4   3   3   24.2423455   7-1.16309573   3552   Norway Maple   Acer pitatnoides   4   3   3   24.24223455   7-1.16309573   3552   Norway Maple   Acer pitatnoides   4   3   3   24.24223855   7-1.16314268   3553   Norway Maple   Acer pitatnoides   7   3   3   24.24223855   7-1.16314466   3554   Norway Maple   Acer pitatnoides   14   3   3   24.24223855   7-1.16314466   3   3   24.24223855   7-1.16314466   3   3   24.24223855   7-1.16314466   3   3   3   3   3   3   3   3   3			· ·					
Black Locust   Robinia pseudoacacia   16   3   a2.4223533   71.1630754		, ,	<u> </u>					
351   Norway Maple   Acer platanoides   10   3   32 42233115   7-11.63109573     352   Norway Maple   Acer platanoides   7   3   32 42232418   7-11.6120023     353   Norway Maple   Acer platanoides   4   3   42-42232418   7-11.6120023     354   Norway Maple   Acer platanoides   7   3   42-42232418   7-11.6120023     355   Norway Maple   Acer platanoides   7   3   42-42239855   7-11.6131408     356   Norway Maple   Acer platanoides   7   3   42-42239855   7-11.6131406     357   Norway Maple   Acer platanoides   14   3   42-42229855   7-11.6131406     358   Norway Maple   Acer platanoides   8   3   42-42223311   7-11.6327207     358   Norway Maple   Acer platanoides   5   3   42-4222331   7-11.63327207     358   Norway Maple   Acer platanoides   6   3   42-4222331   7-11.63327207     358   Norway Maple   Acer platanoides   6   3   42-422234707   7-11.6131795     360   Norway Maple   Acer platanoides   8   3   42-42223407   7-11.6131793     361   Norway Maple   Acer platanoides   8   3   42-42223407   7-11.6131503     362   Norway Maple   Acer platanoides   5   3   42-42223401   7-11.6131003     363   Norway Maple   Acer platanoides   4   3   42-42223401   7-11.6131003     364   Black Locust   Robinia pseudoacacia   12   3   42-42223401   7-11.6131003     365   Norway Maple   Acer platanoides   4   3   42-42223401   7-11.6131003     366   Norway Maple   Acer platanoides   8   3   42-42213668   7-11.6309236     367   Norway Maple   Acer platanoides   8   3   42-42213668   7-11.6300385     368   Norway Maple   Acer platanoides   8   3   42-42213668   7-11.6300385     369   Norway Maple   Acer platanoides   5   3   42-4222304   7-11.63100385     370   Norway Maple   Acer platanoides   7   3   42-4222304   7-11.63100385     380   Norway Maple   Acer platanoides   7   3   42-4222304   7-11.63100385     381   Norway Maple   Acer platanoides   7   3   42-42223694   7-11.638936     381   Norway Maple   Acer platanoides   7   3   42-42223694   7-11.638936     381   Norway Maple   Acer platanoides   7   3   42-42223694			•					
S51   Norway Maple   Acer platanoides   7   3   42.4223455   7-1.16314288   7-1.632023   7-1.6			•					
353			•	_				
354   Norway Maple   Acer platanoides   4   3   42.42229835   71.16318748     355   Black Locust   Robinia pseudoacacia   6   3   42.42229855   71.16318464     356   Norway Maple   Acer platanoides   14   3   42.42227411   71.1633054     357   Norway Maple   Acer platanoides   8   3   42.42224311   71.16327207     358   Norway Maple   Acer platanoides   5   3   42.4222331   71.1632737     359   Black Locust   Robinia pseudoacacia   6   3   42.4222104   71.16316512     360   Norway Maple   Acer platanoides   6   3   42.4222104   71.1631651631     361   Norway Maple   Acer platanoides   8   3   42.4222104   71.1631933     362   Norway Maple   Acer platanoides   8   3   42.4222104   71.1631933     363   Norway Maple   Acer platanoides   8   3   42.4222104   71.1631933     364   Black Locust   Robinia pseudoacacia   12   3   42.4222401   71.1631933     365   Norway Maple   Acer platanoides   4   3   42.4222401   71.1631933     366   Norway Maple   Acer platanoides   4   3   42.4222401   71.1631933     367   Norway Maple   Acer platanoides   4   3   42.4221966   71.16300354     368   Norway Maple   Acer platanoides   4   3   42.4221966   71.16300354     369   Norway Maple   Acer platanoides   4   3   42.4221966   71.16300454     369   Norway Maple   Acer platanoides   5   3   42.42221058   71.16300454     369   Norway Maple   Acer platanoides   7   3   42.4221171   71.16209465     370   Norway Maple   Acer platanoides   7   3   42.422335   71.1629348     371   Norway Maple   Acer platanoides   7   3   42.4223361   71.1628917     372   Norway Maple   Acer platanoides   6   3   42.4223361   71.1628917     373   Norway Maple   Acer platanoides   6   3   42.4223361   71.1628917     374   Black Locust   Robinia pseudoacacia   10   4   42.4225361   71.1628363     378   Norway Maple   Acer platanoides   7   3   42.4223368   71.1627857     379   Rod Oak   Querus rubra   24   Dead   3   42.4223368   71.1627857     380   Norway Maple   Acer platanoides   7   3   42.4223368   71.1627857     381   Black Locust   Robinia pseud			<u> </u>					
355   Black Locust   Robinia pseudoacaia   6   3   42.42229383   71.16318444     356   Rorway Maple   Acer platanoides   14   3   42.42227479   71.1633056     357   Rorway Maple   Acer platanoides   8   3   42.4222331   71.1633276     358   Rorway Maple   Acer platanoides   8   3   42.4222331   71.1633277     358   Rorway Maple   Acer platanoides   5   3   42.42222331   71.1632372     359   Black Locust   Robinia pseudoacaia   6   3   42.42222331   71.163163237     360   Rorway Maple   Acer platanoides   8   3   42.4222144   71.16316612     361   Rorway Maple   Acer platanoides   8   3   42.4222144   71.163163133     362   Rorway Maple   Acer platanoides   8   3   42.4222144   71.163163133     363   Rorway Maple   Acer platanoides   4   3   42.42228451   71.16311373     364   Black Locust   Robinia pseudoacaia   12   3   42.42228451   71.16311373     365   Norway Maple   Acer platanoides   8   3   42.422216589   71.16303452     366   Rorway Maple   Acer platanoides   8   3   42.42216589   71.16303452     367   Norway Maple   Acer platanoides   4   3   42.42216589   71.16303452     368   Rorway Maple   Acer platanoides   5   3   42.42223711   71.1630047     369   Rorway Maple   Acer platanoides   5   3   42.422231711   71.1630047     369   Rorway Maple   Acer platanoides   7   3   42.42231711   71.1630047     370   Rorway Maple   Acer platanoides   7   3   42.42231711   71.1630047     371   Rorway Maple   Acer platanoides   7   3   42.42231711   71.1638917     372   Rorway Maple   Acer platanoides   6   3   42.42233171   71.1628945     373   Rorway Maple   Acer platanoides   6   3   42.42233171   71.1628917     374   Rorway Maple   Acer platanoides   7   3   42.42234379   71.1627867     375   Rorway Maple   Acer platanoides   6   3   42.42234379   71.1627867     376   Rorway Maple   Acer platanoides   8   3   42.42244379   71.1627379     377   Rorway Maple   Acer platanoides   7   3   42.42234379   71.16273863     378   Rorway Maple   Acer platanoides   7   3   42.42234379   71.16273834     380   Rorway Maple		, ,						
356   Norway Maple   Acer platanoides   14   3   42,42229455   -71,1633056   3   42,42227479   -71,1633056   3   42,42227479   -71,1633056   3   42,4222331   -71,16330736   3   3   3   3   3   3   3   3   3			<u> </u>					
356   Norway Maple   Acer platanoides   14   3   42.42227479   -71.1633076   357   Norway Maple   Acer platanoides   8   3   42.42224311   -71.16327207   358   Norway Maple   Acer platanoides   5   3   42.4222331   -71.16327372   359   Black Locust   Robinia pseudoacacia   6   3   42.42221044   -71.16316612   360   Norway Maple   Acer platanoides   8   3   42.42221044   -71.16316612   361   Norway Maple   Acer platanoides   8   3   42.42221044   -71.16315631   362   Norway Maple   Acer platanoides   5   3   42.4222404   -71.16315933   362   Norway Maple   Acer platanoides   5   3   42.4222404   -71.16315933   363   Norway Maple   Acer platanoides   4   3   42.42224851   -71.16311373   364   Black Locust   Robinia pseudoacacia   12   3   42.4221866   -71.16300345   365   Norway Maple   Acer platanoides   8   3   42.4221966   -71.16300345   366   Norway Maple   Acer platanoides   4   3   42.4221966   -71.16300345   366   Norway Maple   Acer platanoides   5   3   42.4221964   -71.16300345   368   Norway Maple   Acer platanoides   5   3   42.4221964   -71.16300345   368   Norway Maple   Acer platanoides   5   3   42.4221964   -71.16300345   368   Norway Maple   Acer platanoides   5   3   42.4221964   -71.16300345   368   Norway Maple   Acer platanoides   5   3   42.42219711   -71.16300417   369   Norway Maple   Acer platanoides   5   3   42.42219711   -71.16300417   369   Norway Maple   Acer platanoides   6   3   42.42231711   -71.16280915			•					
358   Norway Maple   Acer platanoides   8   3   42,4222331   -71.16327207   358   Norway Maple   Acer platanoides   5   3   42,4222331   -71.1632737   359   Black Locust   Robinia pseudoacacia   6   3   42,4222407   -71.16317953   360   Norway Maple   Acer platanoides   6   3   42,42221940   -71.16317953   361   Norway Maple   Acer platanoides   8   3   42,4221944   -71.16315631   361   Norway Maple   Acer platanoides   5   3   42,4222401   -71.163150333   362   Norway Maple   Acer platanoides   5   3   42,4222401   -71.16315033   363   Norway Maple   Acer platanoides   4   3   42,4222401   -71.16315033   364   Black Locust   Robinia pseudoacacia   12   3   42,4221668   -71.16309326   365   Norway Maple   Acer platanoides   8   3   42,42216589   -71.1630935   366   Norway Maple   Acer platanoides   5   3   42,422219064   -71.16300385   367   Norway Maple   Acer platanoides   5   3   42,422219064   -71.16300385   368   Norway Maple   Acer platanoides   5   3   42,422219064   -71.16300385   369   Norway Maple   Acer platanoides   7   3   42,4223955   -71.16290465   370   Norway Maple   Acer platanoides   8   3   42,42232955   -71.16290465   371   Norway Maple   Acer platanoides   7   3   42,422317   -71.16290855   372   Norway Maple   Acer platanoides   6   3   42,42234906   -71.16289156   373   Norway Maple   Acer platanoides   6   3   42,42234906   -71.16289156   374   Black Locust   Robinia pseudoacacia   12   3   42,42234935   -71.1628044   373   Norway Maple   Acer platanoides   10   4   42,4225515   -71.16278576   375   Robinia pseudoacacia   12   3   42,42234935   -71.1628044   378   Norway Maple   Acer platanoides   10   4   42,42254275   -71.1628054   378   Norway Maple   Acer platanoides   10   4   42,42264275   -71.1628054   378   Norway Maple   Acer platanoides   10   3   42,42234275   -71.1628054   378   Norway Maple   Acer platanoides   10   3   42,4223580   -71.1628054   379   Black Locust   Robinia pseudoacacia   12   3   42,4223580   -71.1628054   381   Norway Maple   Acer platanoides   10   3			•					
358			· · · · · · · · · · · · · · · · · · ·					
359   Black Locust   Robinia pseudoacacia   6   3   42.42224707   -71.16317953   360   Norway Maple   Acer platanoides   6   3   42.4221404   -71.16316612   361   Norway Maple   Acer platanoides   8   3   42.42214014   -71.16315003   362   Norway Maple   Acer platanoides   5   3   42.42224014   -71.16315003   363   Norway Maple   Acer platanoides   4   3   42.4222451   -71.1631933   365   Norway Maple   Acer platanoides   8   3   42.422218666   -71.1630933   365   Norway Maple   Acer platanoides   4   3   42.42218668   -71.1630934   366   Norway Maple   Acer platanoides   4   3   42.42218668   -71.1630934   366   Norway Maple   Acer platanoides   5   3   42.42215669   -71.1620948   368   Norway Maple   Acer platanoides   5   3   42.42231711   -71.1630017   369   Norway Maple   Acer platanoides   7   3   42.42231711   -71.16300417   370   Norway Maple   Acer platanoides   7   3   42.42231711   -71.16289117   371   Norway Maple   Acer platanoides   6   3   42.42231711   -71.16289117   372   Norway Maple   Acer platanoides   6   3   42.4223406   -71.16289256   372   Norway Maple   Acer platanoides   6   3   42.4225361   -71.16289256   373   Norway Maple   Acer platanoides   6   3   42.4225361   -71.16289256   373   Norway Maple   Acer platanoides   10   4   42.42253515   -71.16278527   375   Red Oak   Quercus rubra   24   Dead   3   42.42243279   -71.16278527   375   Red Oak   Quercus rubra   24   Dead   3   42.42224379   -71.16286037   377   Norway Maple   Acer platanoides   8   3   42.42224379   -71.16286037   378   Norway Maple   Acer platanoides   8   3   42.42224327   -71.16286037   379   Black Locust   Robinia pseudoacacia   12   3   42.42223509   -71.1629967   380   Norway Maple   Acer platanoides   7   3   42.42223509   -71.1629967   381   Norway Maple   Acer platanoides   7   3   42.42223509   -71.1629967   381   Norway Maple   Acer platanoides   7   3   42.42223509   -71.1629967   381   Norway Maple   Acer platanoides   9   3   42.42223509   -71.1629967   381   Norway Maple   Acer platanoides   10   3		•						
360   Norway Maple   Acer platanoides   6   3   42.4221044   -71.16316612     361   Norway Maple   Acer platanoides   8   3   42.42214946   -71.1631303     362   Norway Maple   Acer platanoides   5   3   42.4222444   -71.1631503     363   Norway Maple   Acer platanoides   4   3   42.4222651   -71.16311737     364   Black Locust   Robinia pseudoacacia   12   3   42.42216686   -71.16390326     365   Norway Maple   Acer platanoides   8   3   42.42216686   -71.16300385     366   Norway Maple   Acer platanoides   4   3   42.42216686   -71.16300385     367   Norway Maple   Acer platanoides   5   3   42.4222561   -71.16299448     368   Norway Maple   Acer platanoides   7   3   42.42235171   -71.16300417     369   Norway Maple   Acer platanoides   7   3   42.4223171   -71.16300417     370   Norway Maple   Acer platanoides   7   3   42.4222178   -71.16289117     371   Norway Maple   Acer platanoides   6   3   42.42224940   -71.16289456     372   Norway Maple   Acer platanoides   6   3   42.42224940   -71.1628644     373   Norway Maple   Acer platanoides   6   3   42.42225861   -71.1628646     374   Black Locust   Robinia pseudoacacia   12   3   42.42235861   -71.1628646     375   Rod Oak   Quercus rubra   24   Dead   3   42.42248406   -71.1627869     376   Norway Maple   Acer platanoides   7   3   42.4223569   -71.1627869     377   Norway Maple   Acer platanoides   7   3   42.4223569   -71.1627869     378   Norway Maple   Acer platanoides   7   3   42.4223569   -71.1627869     379   Black Locust   Robinia pseudoacacia   12   3   42.4223569   -71.16286037     379   Black Locust   Robinia pseudoacacia   12   3   42.4223560   -71.16286037     380   Norway Maple   Acer platanoides   7   3   42.4223560   -71.1628935     381   Black Locust   Robinia pseudoacacia   12   3   42.4223560   -71.1627918     382   Norway Maple   Acer platanoides   7   3   42.4223800   -71.1627913     383   Norway Maple   Acer platanoides   7   3   42.4223350   -71.1627913     384   Norway Maple   Acer platanoides   7   3   42.4223305   -71.1627913		, ,	·	_				
361   Norway Maple   Acer platanoides   8   3   42.4221946   -71.1631393   362   Norway Maple   Acer platanoides   5   3   42.42224014   -71.16315003   363   Norway Maple   Acer platanoides   4   3   42.4228451   -71.16311737   364   Black Locust   Robinia pseudoacacia   12   3   42.4221868   -71.16309236   365   Norway Maple   Acer platanoides   8   3   42.42216589   -71.1630935   366   Norway Maple   Acer platanoides   4   3   42.42216589   -71.16309438   366   Norway Maple   Acer platanoides   5   3   42.42221671   -71.16309451   368   Norway Maple   Acer platanoides   7   3   42.4223171   -71.16309418   368   Norway Maple   Acer platanoides   8   3   42.4223171   -71.16300415   369   Norway Maple   Acer platanoides   8   3   42.4223373   -71.16290865   370   Norway Maple   Acer platanoides   7   3   42.4223171   -71.16300417   -			•					
362   Norway Maple   Acer platanoides   5   3   42,42224014   -71.1631030   363   Norway Maple   Acer platanoides   4   3   42,4228451   -71.1631173   364   Black Locust   Robinia pseudoacaia   12   3   42,42216589   -71.16309236   365   Norway Maple   Acer platanoides   8   3   42,42216589   -71.16309236   366   Norway Maple   Acer platanoides   4   3   42,42216589   -71.16309326   367   Norway Maple   Acer platanoides   5   3   42,422216580   -71.16309348   368   Norway Maple   Acer platanoides   7   3   42,42223171   -71.16300347   369   Norway Maple   Acer platanoides   8   3   42,4222375   -71.16299448   370   Norway Maple   Acer platanoides   6   3   42,4222378   -71.16289117   371   Norway Maple   Acer platanoides   6   3   42,4224378   -71.16289117   371   Norway Maple   Acer platanoides   6   3   42,4224378   -71.16289167   373   Norway Maple   Acer platanoides   6   3   42,42253861   -71.1628637   373   Norway Maple   Acer platanoides   6   3   42,42253851   -71.1627869   373   Norway Maple   Acer platanoides   8   3   42,42248379   -71.16278527   375   Red Oak   Quercus rubra   24   Dead   3   42,42248379   -71.16278527   376   Norway Maple   Acer platanoides   8   3   42,422248379   -71.1628047   -71.		, ,	•	_				
364   Black Locust   Robinia pseudoacacia   12   3   42,42218451   71,16311737   364   Black Locust   Robinia pseudoacacia   12   3   42,4218668   71,16304542   366   Norway Maple   Acer platanoides   4   3   42,42219064   71,16300385   367   Norway Maple   Acer platanoides   5   3   42,42219064   71,16300385   368   Norway Maple   Acer platanoides   5   3   42,422191   71,16209448   3   42,422191   71,16209448   3   42,422191   71,16209448   3   42,422191   71,16209448   368   Norway Maple   Acer platanoides   7   3   42,4221173   71,1629448   370   Norway Maple   Acer platanoides   7   3   42,4221173   71,16290865   370   Norway Maple   Acer platanoides   6   3   42,4221173   71,16290865   371   Norway Maple   Acer platanoides   6   3   42,4221173   71,16290865   372   Norway Maple   Acer platanoides   6   3   42,4221173   71,1628044   71,16289125   71,1627369			<u> </u>					
365   Norway Maple   Acer platanoides   8   3   42.42218668   71.16309236   365   Norway Maple   Acer platanoides   8   3   42.42215869   71.16300335   366   Norway Maple   Acer platanoides   5   3   42.4222561   71.1629048   368   Norway Maple   Acer platanoides   5   3   42.4222561   71.1629448   368   Norway Maple   Acer platanoides   7   3   42.42231711   71.16300417   71.16290865   3   42.4223935   71.16290865   3   42.4223935   71.16290865   3   42.4223935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.42232935   71.16290865   3   42.4223361   77.1.6289256   3   42.4223361   77.1.6289256   3   42.4223361   77.1.6289256   3   42.4223361   77.1.6289256   3   42.4223361   77.1.6289256   3   42.4223361   77.1.6289256   3   42.4223361   77.1.628037   3   42.4224337   77.1.627869   3   42.4224337   77.1.627859   3   42.4224337   77.1.627859   3   42.4224337   77.1.628037   3   42.4223594   77.1.628037   3   42.4223594   77.1.628037   3   42.4223594   77.1.628037   3   42.4223596   77.1.628037   3   42.4223596   77.1.628037   3   42.4223596   77.1.628037   3   42.4223596   77.1.628037   3   42.4223596   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223359   77.1.628037   3   42.4223308   77.1.629038   3   42.4223308   77.1.629038   3   42.4223308   77.1.629038   3   42.4223308   77.1.6			<u> </u>					
365         Norway Maple         Acer platanoides         8         3         42.42216589         -71.163004542           366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.42223711         -71.16300417           368         Norway Maple         Acer platanoides         7         3         42.4223711         -71.16300417           369         Norway Maple         Acer platanoides         8         3         42.4223935         -71.16289048           370         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253601         -71.16289256           372         Norway Maple         Acer platanoides         10         4         42.4225515         -71.16286276           373         Rorela         Quercus rubra         24         Dead         3         42.42254277         -71.16278657		, ,	•					
366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.42231711         -71.16300417           368         Norway Maple         Acer platanoides         8         3         42.42231711         -71.1629085           370         Norway Maple         Acer platanoides         7         3         42.42231711         -71.1629085           370         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253651         -71.16287369           374         Black Locust         Robinia pseudoacacia         12         3         42.42253875         -71.16273769           375         Red Oak         Quercus rubra         24         Dead         3         42.42224379         -71.1627962           376         Norway Maple         Acer platanoides         8         3         42.42228379         -71.1629812           <			·					
367         Norway Maple         Acer platanoides         5         3         42.4222561         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.422312913         -71.162000417           369         Norway Maple         Acer platanoides         8         3         42.422312935         -71.16289117           370         Norway Maple         Acer platanoides         6         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16289256           373         Norway Maple         Acer platanoides         10         4         42.42253457         -71.16287369           374         Black Locust         Robinia pseudoacacia         12         3         42.42248379         -71.16287369           376         Norway Maple         Acer platanoides         7         3         42.42244221         -71.1628637           377         Norway Maple         Acer platanoides         7         3         42.4222569         -71.16283694           378 <td>365</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td>	365		<u> </u>					
368   Norway Maple   Acer platanoides   7   3   42.42231711   -71.16300417   369   Norway Maple   Acer platanoides   8   3   42.42232935   -71.16290865   3   42.4223171   -71.16290817   371   Norway Maple   Acer platanoides   6   3   42.4224406   -71.1628917   371   Norway Maple   Acer platanoides   6   3   42.4223861   -71.16289256   372   Norway Maple   Acer platanoides   6   3   42.42238861   -71.1628948   373   Norway Maple   Acer platanoides   10   4   42.4226515   -71.16278527   374   Black Locust   Robinia pseudoacacia   12   3   42.42248379   -71.16278527   375   Red Oak   Quercus rubra   24   Dead   3   42.42248379   -71.16278527   376   Norway Maple   Acer platanoides   8   3   42.42248379   -71.162796   377   Norway Maple   Acer platanoides   8   3   42.42244271   -71.16281746   378   Norway Maple   Acer platanoides   12   3   42.42225808   -71.16286037   378   Norway Maple   Acer platanoides   12   3   42.42225808   -71.1629167   380   Norway Maple   Acer platanoides   7   3   42.42218272   -71.1629167   381   Norway Maple   Acer platanoides   7   3   42.42218272   -71.1629914   381   Black Locust   Robinia pseudoacacia   12   3   42.42218272   -71.1629914   381   Norway Maple   Acer platanoides   8   3   42.42218272   -71.1629914   381   Norway Maple   Acer platanoides   8   3   42.4221806   -71.16283892   382   Norway Maple   Acer platanoides   9   3   42.42218603   -71.1627918   383   Norway Maple   Acer platanoides   10   3   42.4223603   -71.1627918   385   Norway Maple   Acer platanoides   10   3   42.4223503   -71.16279167   386   Norway Maple   Acer platanoides   10   3   42.4223557   -71.16279167   386   Norway Maple   Acer platanoides   10   3   42.4223557   -71.16279167   387   Norway Maple   Acer platanoides   10   3   42.4223557   -71.16279167   388   Norway Maple   Acer platanoides   10   3   42.4223557   -71.16279167   388   Norway Maple   Acer platanoides   10   3   42.4223557   -71.16279167   390   Norway Maple   Acer platanoides   12   4   42.4225537   -71.1626837   -71.1626837			·					
369   Norway Maple   Acer platanoides   8   3   42.4223935   -71.16290865   370   Norway Maple   Acer platanoides   7   3   42.42241278   -71.16289117   371   Norway Maple   Acer platanoides   6   3   42.42249406   -71.16289256   372   Norway Maple   Acer platanoides   6   3   42.42253861   -71.162844   373   Norway Maple   Acer platanoides   10   4   42.42265215   -71.16278527   374   Black Locust   Robinia pseudoacacia   12   3   42.4225376   -71.16278527   375   Red Oak   Quercus rubra   24   Dead   3   42.4224827   -71.16278527   376   Norway Maple   Acer platanoides   8   3   42.4224821   -71.1628644   377   Norway Maple   Acer platanoides   7   3   42.4223694   -71.16286937   379   Black Locust   Robinia pseudoacacia   12   3   42.4223694   -71.1628637   379   Black Locust   Robinia pseudoacacia   12   3   42.42225898   -71.1629167   380   Norway Maple   Acer platanoides   7   3   42.42218272   -71.1629435   381   Norway Maple   Acer platanoides   7   3   42.42218272   -71.1629435   381   Norway Maple   Acer platanoides   8   3   42.42218272   -71.16299435   382   Norway Maple   Acer platanoides   8   3   42.4221327   -71.1629918   383   Norway Maple   Acer platanoides   8   3   42.4221369   -71.1629918   383   Norway Maple   Acer platanoides   9   3   42.42213058   -71.1627918   383   Norway Maple   Acer platanoides   9   3   42.42233058   -71.1627918   385   Norway Maple   Acer platanoides   10   3   42.4223453   -71.16274926   385   Norway Maple   Acer platanoides   10   3   42.4223453   -71.16274926   388   Norway Maple   Acer platanoides   11   3   42.42244067   -71.16264475   389   Norway Maple   Acer platanoides   12   3   42.42235537   -71.16266477   390   Norway Maple   Acer platanoides   12   4   42.42255337   -71.16266477   391   Norway Maple   Acer platanoides   12   4   42.42255337   -71.16266477   392   Black Locust   Robinia pseudoacacia   12   4   42.42255337   -71.16266477   392   Black Locust   Robinia pseudoacacia   12   4   42.42255337   -71.16266477   392   Black Locust   Robinia ps	367		•					-71.16299448
370         Norway Maple         Acer platanoides         7         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42253661         -71.16289256           372         Norway Maple         Acer platanoides         10         4         42.42253257         -71.1628644           373         Norway Maple         Acer platanoides         10         4         42.42254257         -71.16278527           374         Black Locust         Robinia pseudoacacia         12         3         42.4224379         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.4224379         -71.1627952           376         Norway Maple         Acer platanoides         8         3         42.42243694         -71.1627952           377         Norway Maple         Acer platanoides         12         3         42.42225699         -71.16286037           378         Norway Maple         Acer platanoides         12         3         42.42225808         -71.1629603           380         Norway Maple         Acer platanoides         12         3         42.42218272         -71.16296037			<u> </u>					
371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253851         -71.16278649           373         Norway Maple         Acer platanoides         10         4         42.42265215         -71.16278769           374         Black Locust         Robinia pseudoacacia         12         3         42.42248379         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.4224821         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.42229569         -71.16281746           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.422218272         -71.16299714	369		Acer platanoides				42.42232935	-71.16290865
372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           373         Norway Maple         Acer platanoides         10         4         42.42265215         -71.16278769           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.4224821         -71.16278527           376         Norway Maple         Acer platanoides         8         3         42.42248221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.42239569         -71.16280594           378         Rovway Maple         Acer platanoides         12         3         42.42229569         -71.16280594           380         Norway Maple         Acer platanoides         7         3         42.42218027         -71.16280637           381         Norway Maple         Acer platanoides         8         3         42.42218027         -71.1629435           381         Black Locust         Robinia pseudoacacia         12         3         42.4221352         -71.16299714		Norway Maple	•					
373         Norway Maple         Acer platanoides         10         4         42.42265215         -71.16273769           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.1627862           376         Norway Maple         Acer platanoides         8         3         42.42243694         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.42229569         -71.16286037           378         Norway Maple         Acer platanoides         12         3         42.42225808         -71.16286037           380         Norway Maple         Acer platanoides         7         3         42.42225808         -71.16286037           381         Norway Maple         Acer platanoides         8         3         42.4221572         -71.1629405           381         Black Locust         Robinia pseudoacacia         12         3         42.4221302         -71.16279218           382         Norway Maple         Acer platanoides         8         3         42.42223058         -71.16279218	371	Norway Maple	•					
374         Black Locust         Robinia pseudoacacia         12         3 42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3 42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3 42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         12         3 42.4223694         -71.16281693           378         Norway Maple         Acer platanoides         12         3 42.42225808         -71.1628037           380         Norway Maple         Acer platanoides         7         3 42.42218272         -71.1629167           380         Norway Maple         Acer platanoides         8         3 42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3 42.4221352         -71.16299174           381         Black Locust         Robinia pseudoacacia         12         3 42.4221352         -71.1629435           381         Norway Maple         Acer platanoides         8         3 42.42223606         -71.1629435           382         Norway Maple         Acer platanoides         9         3 42.42233058         -71.16279218			· · · · · · · · · · · · · · · · · · ·					
375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16281694           378         Norway Maple         Acer platanoides         12         3         42.42229569         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.1629435           381         Black Locust         Robinia pseudoacacia         12         3         42.4221352         -71.1629435           381         Black Locust         Robinia pseudoacacia         12         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42228603         -71.16279618			· · · · · · · · · · · · · · · · · · ·					
376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16283694           378         Norway Maple         Acer platanoides         12         3         42.42229569         -71.1628037           379         Black Locust         Robinia pseudoacacia         12         3         42.42218272         -71.1628037           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.4221352         -71.16299714           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16279218           384<			·					
377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16283694           378         Norway Maple         Acer platanoides         12         3         42.42225699         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.4221808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.4221352         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.1629435           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16297914           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16279218           382         Norway Maple         Acer platanoides         8         3         42.42233058         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669           384         Norway Maple         Acer platanoides         10         3         42.42237117         -71.16271673           385					Dead			
378         Norway Maple         Acer platanoides         12         3 42.4222569         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3 42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3 42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3 42.4221352         -71.16294714           381         Black Locust         Robinia pseudoacacia         12         3 42.42224026         -71.1629714           381         Black Locust         Robinia pseudoacacia         12         3 42.42224026         -71.162979218           382         Norway Maple         Acer platanoides         8         3 42.4223803         -71.16279218           383         Norway Maple         Acer platanoides         9         3 42.4223717         -71.16279218           384         Norway Maple         Acer platanoides         10         3 42.4223717         -71.16274926           385         Norway Maple         Acer platanoides         11         3 42.4223444         -71.16274573           386         Norway Maple         Acer platanoides         11         3 42.42243453         -71.1627506								
379         Black Locust         Robinia pseudoacacia         12         3 42.42225808 -71.1629167           380         Norway Maple         Acer platanoides         7         3 42.42218272 -71.1629435           381         Norway Maple         Acer platanoides         8         3 42.4221352 -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3 42.42224026 -71.16299714           381         Norway Maple         Acer platanoides         8         3 42.42224026 -71.16299714           382         Norway Maple         Acer platanoides         9         3 42.42233058 -71.16279218           383         Norway Maple         Acer platanoides         9         3 42.42233058 -71.16279218           384         Norway Maple         Acer platanoides         10         3 42.42233058 -71.16274669           385         Norway Maple         Acer platanoides         7         3 42.42233058 -71.16274926           386         Norway Maple         Acer platanoides         11         3 42.42238404 -71.16271573           386         Norway Maple         Acer platanoides         11         3 42.42243453 -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3 42.42244067 -71.16271471           389<			•					
380         Norway Maple         Acer platanoides         7         3 42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3 42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3 42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3 42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3 42.42233058         -71.16279218           384         Norway Maple         Acer platanoides         10         3 42.42237117         -71.16274926           385         Norway Maple         Acer platanoides         7         3 42.42238404         -71.16274926           386         Norway Maple         Acer platanoides         11         3 42.42242067         -71.16271573           386         Norway Maple         Acer platanoides         11         3 42.42243453         -71.16279218           387         Black Locust         Robinia pseudoacacia         12         3 42.42243453         -71.1627506           388         Norway Maple         Acer platanoides         4         42.42246126         -71.1627506		, ,	<u> </u>					
381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669           384         Norway Maple         Acer platanoides         10         3         42.42237117         -71.16274926           385         Norway Maple         Acer platanoides         7         3         42.42238404         -71.16271573           386         Norway Maple         Acer platanoides         11         3         42.42243453         -71.16271573           387         Black Locust         Robinia pseudoacacia         12         3         42.4224453         -71.1627506           388         Norway Maple         Acer platanoides         4         42.42224402         -71.1627506           389         Norway Maple         Acer platanoides         12         4         42.42225373         -71.16268375           391         Bl			•					
381         Black Locust         Robinia pseudoacacia         12         3 42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3 42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3 42.4223058         -71.16276669           384         Norway Maple         Acer platanoides         10         3 42.42237117         -71.16274926           385         Norway Maple         Acer platanoides         7         3 42.42238404         -71.16271573           386         Norway Maple         Acer platanoides         11         3 42.42244067         -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3 42.42243453         -71.1627506           388         Norway Maple         Acer platanoides         4         42.42246126         -71.1627506           389         Norway Maple         Acer platanoides         6         3 42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12         4 42.4225537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4 42.4225645         -71.16259625	380	Norway Maple	Acer platanoides				42.42218272	-71.1629435
382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.4223058         -71.16276669           384         Norway Maple         Acer platanoides         10         3         42.42237117         -71.16274926           385         Norway Maple         Acer platanoides         7         3         42.42238404         -71.16271573           386         Norway Maple         Acer platanoides         11         3         42.4224067         -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3         42.42243453         -71.1627506           388         Norway Maple         Acer platanoides         4         42.422446126         -71.1627506           389         Norway Maple         Acer platanoides         6         3         42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12         4         42.4225537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4         42.4225645         -71.16259625           392         Bla			· · · · · · · · · · · · · · · · · · ·					
383         Norway Maple         Acer platanoides         9         3         42.4223058         -71.16276669           384         Norway Maple         Acer platanoides         10         3         42.42237117         -71.16274926           385         Norway Maple         Acer platanoides         7         3         42.42238404         -71.16271573           386         Norway Maple         Acer platanoides         11         3         42.4224067         -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3         42.4224453         -71.1627506           388         Norway Maple         Acer platanoides         4         42.42246126         -71.1627506           389         Norway Maple         Acer platanoides         6         3         42.42246126         -71.16271471           390         Norway Maple         Acer platanoides         12         4         42.4225537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4         42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4         42.42225345         -71.16259625           393 <td< td=""><td>381</td><td>Black Locust</td><td>•</td><td>_</td><td></td><td></td><td></td><td></td></td<>	381	Black Locust	•	_				
384         Norway Maple         Acer platanoides         10         3 42.42237117 -71.16274926           385         Norway Maple         Acer platanoides         7         3 42.42238404 -71.16271573           386         Norway Maple         Acer platanoides         11         3 42.4224067 -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3 42.42243453 -71.1627506           388         Norway Maple         Acer platanoides         4 42.42246126 -71.16266477           389         Norway Maple         Acer platanoides         6 3 42.42248402 -71.16271471           390         Norway Maple         Acer platanoides         12 4 42.42252537 -71.16268335           391         Black Locust         Robinia pseudoacacia         12 4 42.42253645 -71.16259625           392         Black Locust         Robinia pseudoacacia         12 4 42.42259233 -71.16264475           393         Norway Maple         Acer platanoides         8 4 42.42260773 -71.1625882           394         Norway Maple         Acer platanoides         7 4 42.4226649 -71.16258698           396         Norway Maple         Acer platanoides         7 4 42.42266478 -71.16251649		Norway Maple	Acer platanoides					
385         Norway Maple         Acer platanoides         7         3 42.42238404         -71.16271573           386         Norway Maple         Acer platanoides         11         3 42.42242067         -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3 42.42243453         -71.1627506           388         Norway Maple         Acer platanoides         4         4 42.42246126         -71.1627506           389         Norway Maple         Acer platanoides         6         3 42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12         4 42.4225537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4 42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4 42.42259233         -71.16259625           393         Norway Maple         Acer platanoides         8         4 42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4 42.4226649         -71.16257072           395         Norway Maple         Acer platanoides         8         4 42.42266494         -71.16251649			Acer platanoides			3		
386         Norway Maple         Acer platanoides         11         3         42.42242067         -71.16269428           387         Black Locust         Robinia pseudoacacia         12         3         42.42243453         -71.1627506           388         Norway Maple         Acer platanoides         4         42.42246126         -71.16266477           389         Norway Maple         Acer platanoides         6         3         42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12         4         42.42252537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4         42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4         42.42259233         -71.16259625           393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.4226649         -71.16257072           395         Norway Maple         Acer platanoides         7         4         42.42226649         -71.16246898           396         <	384	Norway Maple	Acer platanoides	10		3	42.42237117	-71.16274926
387         Black Locust         Robinia pseudoacacia         12         3 42.42243453         -71.1627506           388         Norway Maple         Acer platanoides         4 42.42246126         -71.16266477           389         Norway Maple         Acer platanoides         6 3 42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12 4 42.42252537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12 4 42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12 4 42.42259233         -71.16264475           393         Norway Maple         Acer platanoides         8 4 42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7 4 42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8 4 42.42266499         -71.16246898           396         Norway Maple         Acer platanoides         7 4 42.42264778         -71.16251649	385	Norway Maple	Acer platanoides	7		3	42.42238404	-71.16271573
388         Norway Maple         Acer platanoides         4         42.42246126         -71.16266477           389         Norway Maple         Acer platanoides         6         3         42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12         4         42.42252537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4         42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4         42.42259233         -71.16264475           393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.4226649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649	386	Norway Maple	· · · · · · · · · · · · · · · · · · ·	11		3	42.42242067	-71.16269428
389         Norway Maple         Acer platanoides         6         3         42.42248402         -71.16271471           390         Norway Maple         Acer platanoides         12         4         42.42252537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4         42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4         42.42259233         -71.16259625           393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.4226649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649	387	Black Locust		12		3		-71.1627506
390         Norway Maple         Acer platanoides         12         4         42.42252537         -71.16268335           391         Black Locust         Robinia pseudoacacia         12         4         42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4         42.42259233         -71.16264475           393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.4226649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649	388	Norway Maple	Acer platanoides	4		4	42.42246126	-71.16266477
391         Black Locust         Robinia pseudoacacia         12         4         42.42253645         -71.16259625           392         Black Locust         Robinia pseudoacacia         12         4         42.42259233         -71.16264475           393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.42268649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649						3		
392         Black Locust         Robinia pseudoacacia         12         4         42.42259233         -71.16264475           393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.42268649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649	390	Norway Maple	Acer platanoides	12		4	42.42252537	-71.16268335
393         Norway Maple         Acer platanoides         8         4         42.42260773         -71.1625882           394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.42268649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649		Black Locust	Robinia pseudoacacia			4		-71.16259625
394         Norway Maple         Acer platanoides         7         4         42.42269116         -71.16257072           395         Norway Maple         Acer platanoides         8         4         42.42268649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649	392	Black Locust	Robinia pseudoacacia	12		4		-71.16264475
395         Norway Maple         Acer platanoides         8         4         42.42268649         -71.16246898           396         Norway Maple         Acer platanoides         7         4         42.42264778         -71.16251649	393	Norway Maple	Acer platanoides			4		-71.1625882
396 Norway Maple Acer platanoides 7 4 42.42264778 -71.16251649	394	, ,				4		-71.16257072
, , ,	395	Norway Maple	Acer platanoides	8		4		
397 Norway Maple Acer platanoides 12 4 42.42257407 -71.16253993	396	Norway Maple	Acer platanoides	7		4	42.42264778	-71.16251649
	397	Norway Maple	Acer platanoides	12		4	42.42257407	-71.16253993

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Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
398	Norway Maple	Acer platanoides	12	Notes 1	4	42.42253095	-71.16256965
399	Norway Maple	Acer platanoides	6		4	42.42233093	-71.16257233
	Norway Maple	Acer platanoides	8		4	42.42247743	-71.16260452
401	Norway Maple	Acer platanoides	8		3	42.42234246	-71.16267818
402	Norway Maple	Acer platanoides	10		3	42.4222989	-71.16270903
403	Black Locust	Robinia pseudoacacia	12		3	42.42224224	
404	Black Locust	Robinia pseudoacacia	10		3	42.4221967	-71.16271333
405	Norway Maple	Acer platanoides	10		3	42.42216193	-71.16287376
	Norway Maple	Acer platanoides	12		3	42.42210649	
407	Norway Maple	Acer platanoides	4		3	42.42210451	-71.16285901
408	Norway Maple	Acer platanoides	12		3	42.42212035	-71.16278659
409	Tree of Heaven	Ailanthus altissima	4		3	42.42209681	-71.16269513
410	Tree of Heaven	Ailanthus altissima	6		3	42.42218482	
411	Tree of Heaven	Ailanthus altissima	5		3	42.42224979	-71.16264207
	Norway Maple	Acer platanoides	4		4	42.42229929	-71.16262866
413	Norway Maple	Acer platanoides	4		4	42.42234285	-71.16260184
414	Norway Maple	Acer platanoides	7		4	42.42241579	
416	Norway Maple	Acer platanoides	10		4	42.42247359	-71.1625048
417	Black Locust	Robinia pseudoacacia	12		4	42.42251863	
418	Norway Maple	Acer platanoides	8		4	42.4225644	-71.16247173
419	Norway Maple	Acer platanoides	9		4	42.42260895	-71.16244625
420	Norway Maple	Acer platanoides	10		4	42.42266292	-71.16239658
421	Tree of Heaven	Ailanthus altissima	3		2	42.42310359	-71.16349187
422	Tree of Heaven	Ailanthus altissima	3		2	42.42306275	-71.16342824
423	Tree of Heaven	Ailanthus altissima	3		2	42.42302599	-71.16336462
424	Tree of Heaven	Ailanthus altissima	3		2	42.42298106	-71.16330653
425	Tree of Heaven	Ailanthus altissima	3		2	42.42294226	-71.16324567
426	Tree of Heaven	Ailanthus altissima	3		2	42.42290347	-71.16319034
427	Tree of Heaven	Ailanthus altissima	3		2	42.42285446	-71.16314331
428	Tree of Heaven	Ailanthus altissima	3		2	42.42281566	-71.16309629
429	Tree of Heaven	Ailanthus altissima	3		3	42.42279728	-71.163005
430	Tree of Heaven	Ailanthus altissima	3		3	42.42276461	-71.16292201
431	Tree of Heaven	Ailanthus altissima	3		3	42.42275848	-71.16282519
432	Tree of Heaven	Ailanthus altissima	3		4	42.42276461	-71.16270624
433	Norway Maple	Acer platanoides	7		4	42.4227546	-71.16237716
444	Red Oak	Quercus rubra	14	Dead	4	42.4228565	-71.16250983
445	Red Oak	Quercus rubra	16	Dead	4	42.4229198	-71.16244344
446	Boxelder	Acer negundo	6		4	42.42300773	-71.16240964
447	Boxelder	Acer negundo	6		4	42.42295866	-71.16228072
448	Buckthorn	Acer negundo	6		4	42.4229081	-71.16215986
449	Tree of Heaven	Ailanthus altissima	3		4	42.42288917	-71.1620202
500	Tree of Heaven	Ailanthus altissima	3		4	42.42285037	-71.16189295
501	Boxelder	Acer negundo	6		4	42.42283078	-71.16182346
	Norway Maple	Acer platanoides	12		4	42.42289502	-71.1622652
503	Norway Maple	Acer platanoides	10		4	42.42282592	-71.16222788
504	Black Locust	Robinia pseudoacacia	12		4	42.42281166	-71.16229442
505	Norway Maple	Acer platanoides	10		4	42.42285453	-71.1622713
506	Norway Maple	Acer platanoides	9		4	42.42278335	-71.16225872
507	Norway Maple	Acer platanoides	6		4	42.42278039	-71.1621934
508	Norway Maple	Acer platanoides	6		4	42.42273584	-71.16222157
509	Norway Maple	Acer platanoides	8	Dual-stem	4	42.42271505	-71.16229264
510	Norway Maple	Acer platanoides	8		4	42.4226826	-71.16228407
511	Norway Maple	Acer platanoides	7		4	42.42265456	
512	Norway Maple	Acer platanoides	4		4	42.42262122	-71.16228139
513	Norway Maple	Acer platanoides	8		4	42.42262083	-71.16235773
514	Norway Maple	Acer platanoides	10		4	42.42257727	-71.16238858
515	Black Locust	Robinia pseudoacacia	12		4	42.42252061	-71.16239509

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T #	Carrage Name	Latin Name	b D I	Notes	A	1 - 4 4	l a sa atherral a
Tree # 516		Latin Name Acer platanoides	DBF 9	Notes 1	Area 4	Latitude 42.42248014	Longitude -71.16242515
517	Norway Maple Norway Maple	Acer platanoides	8	Dual-stem	4	42.42241185	-71.16245907
518	Norway Maple	Acer platanoides	8	Dual-Stelli	4	42.42234554	-71.16249797
519	Black Locust	Robinia pseudoacacia	16		4	42.42230396	-71.16252077
520	Norway Maple	Acer platanoides	7		4	42.42235569	-71.1624996
521	Norway Maple	Acer platanoides	5		4	42.42225779	-71.16242555
522	Norway Maple	Acer platanoides	7		4	42.42235136	-71.16238659
523	Norway Maple	Acer platanoides	6		4	42.42243264	-71.16238799
524	Norway Maple	Acer platanoides	6		4	42.42247719	-71.16235982
525	Tree of Heaven	Ailanthus altissima	5		4	42.42252817	-71.16233162
526	Norway Maple	Acer platanoides	4		4	42.42257767	-71.16230821
527	Red Oak	Quercus rubra	24	Dead	4	42.42272557	-71.16212501
528	Norway Maple	Acer platanoides	8		4	42.42268399	-71.16214646
529	Norway Maple	Acer platanoides	6		4	42.4227258	-71.16204371
530	Black Locust	Robinia pseudoacacia	12		4	42.42267631	-71.16207961
531	Norway Maple	Acer platanoides	7		4	42.42261118	-71.16216594
532	Norway Maple	Acer platanoides	10		4	42.42261295	-71.16207827
533	Black Locust	Robinia pseudoacacia	12		4	42.42248115	-71.1622807
534	Red Oak	Quercus rubra	24	Dead	4	42.42242237	-71.16229143
535	Norway Maple	Acer platanoides	8		4	42.42238079	-71.16231288
536	Norway Maple	Acer platanoides	7		4	42.42230798	-71.16233236
537	Norway Maple	Acer platanoides	12		4	42.42223427	-71.1623558
538	Norway Maple	Acer platanoides	8		4	42.4222246	-71.1622876
539	Norway Maple	Acer platanoides	9		4	42.42226915	-71.16226212
540	Norway Maple	Acer platanoides	10		4	42.42230974	-71.16224469
541	Norway Maple	Acer platanoides	11		4	42.42235924	-71.1621897
542	Black Locust	Robinia pseudoacacia	12		4	42.4223731	-71.16224603
543	Norway Maple	Acer platanoides	4		4	42.42239983	-71.1621602
544	Norway Maple	Acer platanoides	6		4	42.4224226	-71.16221013
545	Norway Maple	Acer platanoides	12		4	42.42246395	-71.16217877
546	Black Locust	Robinia pseudoacacia	12		4	42.42247502	-71.16209168
547	Norway Maple	Acer platanoides	7		4	42.42262582	-71.16204474
548	Norway Maple	Acer platanoides	11		4	42.42266245	-71.16202328
549	Norway Maple	Acer platanoides	4		4	42.42270304	-71.16199378
550	Norway Maple	Acer platanoides	6		4	42.42271927	-71.16190134
551	Norway Maple	Acer platanoides	7		4	42.42242716	-71.16170482
552	Norway Maple	Acer platanoides	8		4	42.42264601	-71.16193353
553	Norway Maple	Acer platanoides	9		4	42.4225847	-71.1619188
554	Norway Maple	Acer platanoides	10		4	42.42257814	-71.16199846
555	Norway Maple	Acer platanoides	8	Dual-stem	4	42.4225164	-71.16195272
556	Norway Maple	Acer platanoides	7		4	42.42252035	-71.16195367
557	Norway Maple	Acer platanoides	12		4	42.42246952	-71.16206508
558	Norway Maple	Acer platanoides	8		4	42.42245009	-71.16199163
	Black Locust	Robinia pseudoacacia	16		4	42.42240851	
560	Norway Maple Norway Maple	Acer platanoides	6		4	42.42241607	-71.16206776
561	, ,	Acer platanoides	8		4	42.42234281	-71.16209995
562	Norway Maple	Acer platanoides	8		4	42.42228103	-71.16217361
563	Norway Maple Norway Maple	Acer platanoides Acer platanoides	10		4	42.42228143 42.42222702	-71.16209727 -71.16214072
564 565	Norway Maple	Acer platanoides  Acer platanoides	8		4	42.4222702	-71.16214072 -71.16218101
566	Norway Maple	Acer platanoides  Acer platanoides	10		4	42.42217314	-71.16218101
567	Norway Maple	Acer platanoides  Acer platanoides	4		4	42.42219212	-71.16209593
568	Norway Maple	Acer platanoides	12		4	42.42219212	-71.16208091
569	Black Locust	Robinia pseudoacacia	12		4	42.42216184	
570	Norway Maple	Acer platanoides	8		4	42.42210104	-71.16194308
571	Norway Maple	Acer platanoides	8		4	42.4222879	-71.16192043
572	Norway Maple	Acer platanoides	9		4	42.4222966	-71.16190095
312	1101 Way Wapie	, teer platariolaes				72.722300	, 1.1010000

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Tree # Common Name         Latin Name         DBH         Notes 1         Area Latitud           573         Norway Maple         Acer platanoides         7         4         42.4223           574         Norway Maple         Acer platanoides         8         4         42.4223           575         Norway Maple         Acer platanoides         6         4         42.4224           576         Norway Maple         Acer platanoides         6         4         42.4225           577         Black Locust         Robinia pseudoacacia         12         5         42.4225           578         Red Oak         Quercus rubra         24         Dead         5         42.4225           579         Norway Maple         Acer platanoides         8         5         42.4225           580         Norway Maple         Acer platanoides         7         5         42.4223           581         Norway Maple         Acer platanoides         10         5         42.4223           583         Black Locust         Robinia pseudoacacia         12         5         42.4222           584         Tree of Heaven         Ailanthus altissima         5         5         42.4222	70.024 -71.16199325 7248 -71.16189774 7591 -71.16188025 719 -71.16188164 7592 -71.1617436 7593 -71.16180654 7594 -71.16184946 7594 -71.16184946 7595 -71.16184975 7596 -71.16177633 7591 -71.1617633 7591 -71.16175578 7591 -71.16173834 7695 -71.16173834 7765 -71.16173965 7438 -71.16173965 7438 -71.1617375 7591 -71.16173965 7591 -71.16173965 7591 -71.16173965 7591 -71.16173965 7591 -71.16173965 7591 -71.16173965 7591 -71.16173965 7591 -71.16173965
574         Norway Maple         Acer platanoides         8         4         42.4223           575         Norway Maple         Acer platanoides         7         4         42.4224           576         Norway Maple         Acer platanoides         6         4         42.4225           577         Black Locust         Robinia pseudoacacia         12         5         42.4225           578         Red Oak         Quercus rubra         24         Dead         5         42.4225           579         Norway Maple         Acer platanoides         8         5         42.4224           580         Norway Maple         Acer platanoides         7         5         42.4224           581         Norway Maple         Acer platanoides         12         5         42.4223           581         Norway Maple         Acer platanoides         10         5         42.4222           583         Black Locust         Robinia pseudoacacia         12         5         42.4222           584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         8         5         42.4223           587 <td>7248 -71.16189774 5591 -71.16188025 6719 -71.16188164 6857 -71.16177436 692 -71.16178508 6534 -71.16182602 6882 -71.16184946 6492 -71.1618492 6492 -71.1618497 6531 -71.1617633 6531 -71.1617633 6531 -71.1617633 6731 -71.16178126 67371 -71.16178126 67371 -71.1617834 67379 -71.16173834 67438 -71.16163385 6745 -71.16173965 67438 -71.16163385 6745 -71.1617379</td>	7248 -71.16189774 5591 -71.16188025 6719 -71.16188164 6857 -71.16177436 692 -71.16178508 6534 -71.16182602 6882 -71.16184946 6492 -71.1618492 6492 -71.1618497 6531 -71.1617633 6531 -71.1617633 6531 -71.1617633 6731 -71.16178126 67371 -71.16178126 67371 -71.1617834 67379 -71.16173834 67438 -71.16163385 6745 -71.16173965 67438 -71.16163385 6745 -71.1617379
575         Norway Maple         Acer platanoides         7         4         42.42245           576         Norway Maple         Acer platanoides         6         4         42.4225           577         Black Locust         Robinia pseudoacacia         12         5         42.4225           578         Red Oak         Quercus rubra         24         Dead         5         42.4225           579         Norway Maple         Acer platanoides         8         5         42.4224           580         Norway Maple         Acer platanoides         7         5         42.4224           581         Norway Maple         Acer platanoides         10         5         42.4226           581         Norway Maple         Acer platanoides         10         5         42.4226           583         Black Locust         Robinia pseudoacacia         12         5         42.4226           584         Tree of Heaven         Ailanthus altissima         5         5         42.4226           585         Norway Maple         Acer platanoides         4         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223 <tr< td=""><td>5591 -71.16188025 6719 -71.16188164 6857 -71.16177436 6962 -71.16178508 6534 -71.16182602 6882 -71.16184946 6492 -71.16184329 6826 -71.16184979 6531 -71.1617633 6531 -71.1617633 6731 -71.16178126 67371 -71.1617834 67438 -71.16173834 67438 -71.16163385 67438 -71.16163385 67438 -71.16163385 67438 -71.16170379</td></tr<>	5591 -71.16188025 6719 -71.16188164 6857 -71.16177436 6962 -71.16178508 6534 -71.16182602 6882 -71.16184946 6492 -71.16184329 6826 -71.16184979 6531 -71.1617633 6531 -71.1617633 6731 -71.16178126 67371 -71.1617834 67438 -71.16173834 67438 -71.16163385 67438 -71.16163385 67438 -71.16163385 67438 -71.16170379
576         Norway Maple         Acer platanoides         6         4         42.4225           577         Black Locust         Robinia pseudoacacia         12         5         42.4225           578         Red Oak         Quercus rubra         24         Dead         5         42.4225           579         Norway Maple         Acer platanoides         8         5         42.4224           580         Norway Maple         Acer platanoides         7         5         42.4224           581         Norway Maple         Acer platanoides         10         5         42.4223           582         Norway Maple         Acer platanoides         10         5         42.42226           583         Black Locust         Robinia pseudoacacia         12         5         42.42226           584         Tree of Heaven         Ailanthus altissima         5         5         42.42226           584         Tree of Heaven         Ailanthus altissima         5         5         42.42226           585         Norway Maple         Acer platanoides         4         5         42.42226           586         Norway Maple         Acer platanoides         9         5         42.4223 <td>71.16188164 71.16177436 72.692 -71.16178508 73.34 -71.16180654 73.34 -71.16182602 73.34 -71.16184946 74.36 -71.16184946 74.36 -71.16184979 75.31 -71.1617633 75.31 -71.1617633 75.31 -71.16178126 77.37 -71.1617834 77.37 -71.16173834 77.37 -71.16173834 77.38 -71.16163385 77.38 -71.16163385</td>	71.16188164 71.16177436 72.692 -71.16178508 73.34 -71.16180654 73.34 -71.16182602 73.34 -71.16184946 74.36 -71.16184946 74.36 -71.16184979 75.31 -71.1617633 75.31 -71.1617633 75.31 -71.16178126 77.37 -71.1617834 77.37 -71.16173834 77.37 -71.16173834 77.38 -71.16163385 77.38 -71.16163385
577         Black Locust         Robinia pseudoacacia         12         5         42.4225           578         Red Oak         Quercus rubra         24         Dead         5         42.4225           579         Norway Maple         Acer platanoides         8         5         42.4224           580         Norway Maple         Acer platanoides         12         5         42.4223           581         Norway Maple         Acer platanoides         10         5         42.4226           583         Black Locust         Robinia pseudoacacia         12         5         42.4226           584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4222           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4223           589         Norway Maple         Acer platanoides         11         5         42.4224           591<	3857         -71.16177436           2692         -71.16178508           3534         -71.16180654           1253         -71.16184946           3882         -71.16184329           3826         -71.16184979           3531         -71.1617633           3531         -71.16176292           2916         -71.16178126           3737         -71.16173834           3379         -71.16168336           3765         -71.16173969           3438         -71.16165385           2715         -71.16170379
578         Red Oak         Quercus rubra         24         Dead         5         42.4225           579         Norway Maple         Acer platanoides         8         5         42.4224           580         Norway Maple         Acer platanoides         12         5         42.4223           581         Norway Maple         Acer platanoides         10         5         42.4226           583         Black Locust         Robinia pseudoacacia         12         5         42.4226           584         Tree of Heaven         Ailanthus altissima         5         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4222           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4223           589         Norway Maple         Acer platanoides         11         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225	2692 -71.16178508 2534 -71.16180654 1253 -71.16182602 2882 -71.16184946 2492 -71.16184979 1581 -71.1617633 1531 -71.16176292 1916 -71.16178126 17371 -71.16175578 1429 -71.16173834 1765 -71.16173969 17438 -71.16165385 1755 -71.16170379
579         Norway Maple         Acer platanoides         8         5         42.4224           580         Norway Maple         Acer platanoides         7         5         42.4224           581         Norway Maple         Acer platanoides         10         5         42.4226           582         Norway Maple         Acer platanoides         10         5         42.4226           583         Black Locust         Robinia pseudoacacia         12         5         42.4226           584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4226           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           593         Nor	3534 -71.16180654 1253 -71.16182602 3882 -71.16184946 3492 -71.16184329 3826 -71.16184979 1581 -71.1617633 3531 -71.16176292 1916 -71.16178126 371 -71.16175578 1429 -71.16173834 379 -71.16168336 3765 -71.16173969 3438 -71.16165385 1715 -71.16170379
580         Norway Maple         Acer platanoides         7         5         42.4224           581         Norway Maple         Acer platanoides         12         5         42.4223           582         Norway Maple         Acer platanoides         10         5         42.4226           583         Black Locust         Robinia pseudoacacia         12         5         42.4226           584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4226           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         12         5         42.4225           593         No	
581         Norway Maple         Acer platanoides         12         5         42.4223           582         Norway Maple         Acer platanoides         10         5         42.4226           583         Black Locust         Robinia pseudoacacia         12         5         42.4226           584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4223           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         7         5         42.4225           595         Nor	3882 -71.16184946 5492 -71.16184329 5826 -71.16184979 5831 -71.1617633 5531 -71.16176292 2916 -71.16178126 7371 -71.16175578 5429 -71.16173834 5379 -71.16168336 7765 -71.16173969 5438 -71.16165385 7715 -71.16170379
582         Norway Maple         Acer platanoides         10         5         42.42226           583         Black Locust         Robinia pseudoacacia         12         5         42.4222           584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4223           586         Norway Maple         Acer platanoides         9         5         42.4223           587         Norway Maple         Acer platanoides         10         5         42.4223           588         Norway Maple         Acer platanoides         11         5         42.4224           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         12         5         42.4225           593         Norway Maple         Acer platanoides         7         5         42.4225           595         Norway Maple         Acer platanoides         7         5         42.4225           596         <	74.16184329 75.26 -71.16184979 75.27 -71.16177633 75.31 -71.16176292 75.31 -71.16178126 75.31 -71.16175578 75.31 -71.16173834 76.37 -71.16168336 77.5 -71.16173969 77.5 -71.16165385 77.5 -71.1617379
583         Black Locust         Robinia pseudoacacia         12         5         42.42220           584         Tree of Heaven         Ailanthus altissima         5         42.42220           585         Norway Maple         Acer platanoides         4         5         42.42230           586         Norway Maple         Acer platanoides         9         5         42.42230           587         Norway Maple         Acer platanoides         10         5         42.42230           588         Norway Maple         Acer platanoides         11         5         42.42240           590         Black Locust         Robinia pseudoacacia         12         5         42.42240           591         Norway Maple         Acer platanoides         4         5         42.42250           592         Norway Maple         Acer platanoides         6         5         42.42250           593         Norway Maple         Acer platanoides         12         5         42.42250           594         Norway Maple         Acer platanoides         7         5         42.42250           595         Norway Maple         Acer platanoides         6         5         42.42250           596	
584         Tree of Heaven         Ailanthus altissima         5         42.4222           585         Norway Maple         Acer platanoides         4         5         42.4223           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4226           596         Norw	2581 -71.16177633 2531 -71.16176292 2916 -71.16178126 2371 -71.16175578 2429 -71.16173834 2379 -71.16168336 2765 -71.16173969 2438 -71.16165385 2715 -71.16170379
585         Norway Maple         Acer platanoides         4         5         42.42226           586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227           596	5531 -71.16176292 2916 -71.16178126 7371 -71.16175578 1429 -71.16173834 5379 -71.16168336 7765 -71.16173969 1438 -71.16165385 2715 -71.16170379
586         Norway Maple         Acer platanoides         8         5         42.4223           587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	2916 -71.16178126 7371 -71.16175578 1429 -71.16173834 5379 -71.16168336 7765 -71.16173969 1438 -71.16165385 1715 -71.16170379
587         Norway Maple         Acer platanoides         9         5         42.4223           588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	7371 -71.16175578 1429 -71.16173834 5379 -71.16168336 7765 -71.16173969 1438 -71.16165385 1715 -71.16170379
588         Norway Maple         Acer platanoides         10         5         42.4224           589         Norway Maple         Acer platanoides         11         5         42.4224           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	.429 -71.16173834 5379 -71.16168336 7765 -71.16173969 0438 -71.16165385 2715 -71.16170379
589         Norway Maple         Acer platanoides         11         5         42.42246           590         Black Locust         Robinia pseudoacacia         12         5         42.4224           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	5379 -71.16168336 7765 -71.16173969 0438 -71.16165385 2715 -71.16170379
590         Black Locust         Robinia pseudoacacia         12         5         42.42247           591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	7765 -71.16173969 0438 -71.16165385 2715 -71.16170379
591         Norway Maple         Acer platanoides         4         5         42.4225           592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	0438 -71.16165385 2715 -71.16170379
592         Norway Maple         Acer platanoides         6         5         42.4225           593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	71.16170379
593         Norway Maple         Acer platanoides         12         5         42.4225           594         Norway Maple         Acer platanoides         7         5         42.4226           595         Norway Maple         Acer platanoides         4         5         42.4227           596         Norway Maple         Acer platanoides         6         5         42.4227	
594         Norway Maple         Acer platanoides         7         5         42.42268           595         Norway Maple         Acer platanoides         4         5         42.42274           596         Norway Maple         Acer platanoides         6         5         42.42279	
595         Norway Maple         Acer platanoides         4         5         42.42274           596         Norway Maple         Acer platanoides         6         5         42.42279	
596 Norway Maple Acer platanoides 6 5 42.42279	
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557 Normay Mapre Proces placemented	
598 Norway Maple Acer platanoides 12 5 42.4225	
599 Norway Maple Acer platanoides 6 5 42.42252	
600 Norway Maple Acer platanoides 8 5 42.42244	
601 Norway Maple Acer platanoides 8 5 42.42238	
602 Norway Maple Acer platanoides 10 5 42.42234	
603 Norway Maple Acer platanoides 4 5 42.42238	
604 Norway Maple Acer platanoides 4 5 42.42234	
605 Norway Maple Acer platanoides 8 5 42.42222	
606 Norway Maple Acer platanoides 6 5 42.4223	
607 Norway Maple Acer platanoides 4 5 42.4223	3203 -71.16147371
608 Norway Maple Acer platanoides 4 5 42.4223	
609 Norway Maple Acer platanoides 6 5 42.42242	1606 -71.16151258
610 Norway Maple Acer platanoides 6 5 42.42244	351 -71.16138334
611 Norway Maple Acer platanoides 12 5 42.42245	741 -71.16148122
612 Norway Maple Acer platanoides 4 5 42.42250	0569 -71.16140776
613 Norway Maple Acer platanoides 6 5 42.42252	2846 -71.1614577
614 Norway Maple Acer platanoides 12 5 42.42256	981 -71.16142634
615 Black Locust Robinia pseudoacacia 12 5 42.42263	3676 -71.16138775
616 Norway Maple Acer platanoides 10 5 42.42265	495 -71.16145853
617 Norway Maple Acer platanoides 8 5 42.42269	9529 -71.16137192
618 Norway Maple Acer platanoides 12 5 42.42275	
619 Norway Maple Acer platanoides 6 5 42.42279	9115 -71.16141801
620 Norway Maple Acer platanoides 10 5 42.42287	
621 Black Locust Robinia pseudoacacia 12 5 42.42285	71.16128322
622 Norway Maple Acer platanoides 12 5 42.4227	
623 Norway Maple Acer platanoides 6 5 42.42274	1885 -71.16135317
624 Norway Maple Acer platanoides 4 5 42.42272	2608 -71.16130323
625 Norway Maple Acer platanoides 8 5 42.42264	1468 -71.16128046
626 Black Locust Robinia pseudoacacia 12 5 42.42258	
627 Norway Maple Acer platanoides 12 5 42.4225	7538 -71.16131264
628 Norway Maple Acer platanoides 6 5 42.42252	
629 Norway Maple Acer platanoides 12 5 42.42248	3486 -71.16135198

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Troo #	Common Namo	Latin Nama	DBH	Notes 1	Aron	Latituda	Longitudo
Tree # 630	Norway Maple	Latin Name Acer platanoides	DBH 4	Notes 1	Area 5	Latitude 42.42241666	Longitude -71.16130021
631	Norway Maple	Acer platanoides	10		5	42.42251802	-71.16130021
632	Black Locust	Robinia pseudoacacia	12		5	42.42256306	-71.1612478
633	Norway Maple	Acer platanoides	8		5	42.42260884	-71.16121472
634	Norway Maple	Acer platanoides	9		5	42.42265338	-71.16118924
639	Black Locust	Robinia pseudoacacia	12		5	42.42278346	-71.16115693
640	Norway Maple	Acer platanoides	10		5	42.42273841	-71.16113033
641	Norway Maple	Acer platanoides	6		5	42.42274232	-71.1612108
642	Norway Maple	Acer platanoides	12		5	42.42279578	-71.16120811
643	Black Locust	Robinia pseudoacacia	12		5	42.42280128	-71.16123471
644	Norway Maple	Acer platanoides	12		5	42.4228389	-71.16117839
645	Norway Maple	Acer platanoides	8		5	42.42287256	-71.16122667
646	Norway Maple	Acer platanoides	6		5	42.42287663	-71.16113992
647	Black Locust	Robinia pseudoacacia	12		5	42.42292005	-71.16117518
648	Tree of Heaven	Ailanthus altissima	5		5	42.42292761	-71.16110172
649	Norway Maple	Acer platanoides	10		5	42.42297671	-71.16116868
650	Norway Maple	Acer platanoides	4		5	42.4229771	-71.16108831
651	Norway Maple	Acer platanoides	8		5	42.42282923	-71.16111019
652	Black Locust	Robinia pseudoacacia	12		5	42.42278544	-71.16103355
653	Norway Maple	Acer platanoides	9		5	42.42274497	-71.16106361
654	Norway Maple	Acer platanoides	10		5	42.42267071	-71.16107071
655	Norway Maple	Acer platanoides	10		5	42.42262171	-71.16113157
666	Black Locust	Robinia pseudoacacia	12		5	42.42256504	-71.16113808
667	Norway Maple	Acer platanoides	9		5	42.42252458	-71.16116814
668	Black Locust	Robinia pseudoacacia	12		5	42.42244358	-71.16120148
669	Norway Maple	Acer platanoides	12		5	42.42247083	-71.16114445
670	Black Locust	Robinia pseudoacacia	12		5	42.42248334	-71.16105432
671	Norway Maple	Acer platanoides	6		5	42.42252162	-71.16110282
672	Black Locust	Robinia pseudoacacia	12		5	42.42252558	-71.16102369
673	Norway Maple	Acer platanoides	7		5	42.42253007	-71.1609492
674	Tree of Heaven	Ailanthus altissima	5		5	42.4225726	-71.16106462
675	Norway Maple	Acer platanoides	4		5	42.42261318	-71.16099883
676	Norway Maple	Acer platanoides	4		5	42.42267111	-71.16099035
677	Norway Maple	Acer platanoides	6		5	42.42274201	-71.16099828
678	Black Locust	Robinia pseudoacacia	12		5	42.42274597	-71.16091916
679	Tree of Heaven	Ailanthus altissima	5		5	42.42279299	-71.16096008
680	Norway Maple	Acer platanoides	4		5	42.42284249	-71.16094667
681	Norway Maple	Acer platanoides	12		5	42.42289949	-71.16091821
682	Norway Maple	Acer platanoides	9		5	42.42291691	-71.16099796
683	Norway Maple	Acer platanoides	8		5	42.42296963	-71.16093869
684	Norway Maple	Acer platanoides	10		5	42.4228421	-71.16102704
685	Norway Maple	Acer platanoides	6		5	42.42307575	-71.16084181
686	Tree of Heaven	Ailanthus altissima	4		5	42.42286263	-71.1617491
687	Tree of Heaven	Ailanthus altissima	4		5	42.42287488	
688	Tree of Heaven	Ailanthus altissima	4		5	42.42289938	-71.16148353
689	Tree of Heaven	Ailanthus altissima	5		5	42.42296064	
690	Tree of Heaven	Ailanthus altissima	4		5	42.42303416	-71.16129543
691	Tree of Heaven	Ailanthus altissima	4		5	42.42310359	-71.16121797
692	Tree of Heaven	Ailanthus altissima	3		5	42.42318731	-71.16114605
693	Knotweed	Fallopia japonica	10		5	42.4233006	-71.1613745
694 695	Tree of Heaven Tree of Heaven	Ailanthus altissima	7		5	42.42345085	-71.16116308
	Tree of Heaven	Ailanthus altissima Ailanthus altissima	7		5	42.42356173 42.42365479	-71.1611309
696 697	Tree of Heaven	Ailanthus aitissima	8		5	42.42365479	-71.16107725 -71.16096996
698	Norway Maple	Acer platanoides	24		5	42.42367063	-71.16054886
699	Tree of Heaven	Ailanthus altissima	10		5	42.4240783	-71.16054886
700	Tree of Heaven	Ailanthus altissima	11		5	42.42409037	-71.16059982
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Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
701	Tree of Heaven	Ailanthus altissima	12		5	42.42410819	-71.16062396
702	Tree of Heaven	Ailanthus altissima	10		5	42.42420521	-71.16053545
703	Norway Maple	Acer platanoides	16		5	42.42435766	-71.16039329
704	Tree of Heaven	Ailanthus altissima	20		5	42.42441508	-71.16034769
705	Tree of Heaven	Ailanthus altissima	30		5	42.42446062	-71.1603772
706	Boxelder	Acer negundo	4		5	42.42454625	-71.16035909
707	Tree of Heaven	Ailanthus altissima	4		5	42.42455318	-71.16034099
708	Boxelder	Acer negundo	4		5	42.42456605	-71.1603269
709	Tree of Heaven	Ailanthus altissima	4		5	42.42458189	-71.1603088
710	Tree of Heaven	Ailanthus altissima	4		5	42.42459555	-71.16028641
711	Tree of Heaven	Ailanthus altissima	4		5	42.4246099	-71.16026496
712	Boxelder	Acer negundo	4		5	42.42463861	-71.16022606
713	Tree of Heaven	Ailanthus altissima	3		5	42.42465445	-71.16020192
714	Tree of Heaven	Ailanthus altissima	3		5	42.42467573	-71.16017913
715	Tree of Heaven	Ailanthus altissima	3		5	42.42469306	-71.16016571
716	Norway Maple	Acer platanoides	5		5	42.42466534	-71.16013353
717	Norway Maple	Acer platanoides	5		5	42.42468761	-71.16010738
718	Tree of Heaven	Ailanthus altissima	4		5	42.42471781	-71.16013487
719	Tree of Heaven	Ailanthus altissima	3	Cluster	5	42.42474849	-71.16011207
720	Tree of Heaven	Ailanthus altissima	3		5	42.42476829	-71.16009732
721	Tree of Heaven	Ailanthus altissima	3		5	42.42478611	-71.16008122
722	Tree of Heaven	Ailanthus altissima	3		5	42.42478611	-71.16007452
723	Boxelder	Acer negundo	6		5	42.42480294	-71.16006513
724	Tree of Heaven	Ailanthus altissima	3		5	42.42482076	-71.1600544
725	Tree of Heaven	Ailanthus altissima	3		5	42.42483165	-71.16003294
726	Tree of Heaven	Ailanthus altissima	5		5	42.42484353	-71.16001953
727	Tree of Heaven	Ailanthus altissima	3		5	42.42487026	-71.15999137
728	Norway Maple	Acer platanoides	8	Dead	1	42.42491605	-71.16009082
729	Norway Maple	Acer platanoides	6		1	42.42494377	-71.16005059
730	Norway Maple	Acer platanoides	3		1	42.42498139	-71.16002779
731	Norway Maple	Acer platanoides	4		1	42.42501405	-71.16002243
732	Norway Maple	Acer platanoides	4		1	42.42499129	-71.16009082
733	Norway Maple	Acer platanoides	3		1	42.42498035	-71.16011568
734	Norway Maple	Acer platanoides	3		1	42.42498634	-71.16013106
735	Norway Maple	Acer platanoides	6		1	42.42501603	-71.16012972
736	Norway Maple	Acer platanoides	4		1	42.42499178	-71.16018135
737	Tree of Heaven	Ailanthus altissima	7		1	42.42521402	-71.16087872
738	Tree of Heaven	Ailanthus altissima	6		1	42.42524075	-71.16093237

Total Tree Count 665

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## Master Shrub List

Shrub Bed#	Common	Latin	Area	Sq Ft
434	Tree of Heaven	Ailanthus alitissima	1	157
435	Tree of Heaven	Ailanthus alitissima	1	1063
436	Tree of Heaven	Ailanthus alitissima	1	549
437	Tree of Heaven	Ailanthus alitissima	1	621
438	Tree of Heaven	Ailanthus alitissima	1	113
439	Tree of Heaven	Ailanthus alitissima	1	179
440	Boxelder	Acer negundo	1	17
441	Boxelder	Acer negundo	1	38
442	Boxelder	Acer negundo	1	13
443	Wild Rose	Rosa multiflora	1	72
450	Wild Rose	Rosa multiflora	1	57
451	Wild Rose	Rosa multiflora	1	141
452	Poison Ive	Toxicodendron radicans	1	93
453	Tree of Heaven	Ailanthus alitissima	2	647
454	Buckthorn	Rhamnus cathartica	2	49
455	Buckthorn	Rhamnus cathartica	2	37
456	Buckthorn	Rhamnus cathartica	2	44
457	Knottweed	Fallopia japonica	2	75
458	Poison Ive	Toxicodendron radicans	2	90
459	Buckthorn	Rhamnus cathartica	2	61
460	Buckthorn	Rhamnus cathartica	2	52
461	Boxelder	Acer negundo	2	31
462	Wild Rose	Rosa multiflora	2	90
463	Tree of Heaven	Ailanthus alitissima	3	199
464	Poison Ive	Toxicodendron radicans	3	68
465	Wild Rose	Rosa multiflora	3	60
466	Buckthorn	Rhamnus cathartica	3	145
467	Tree of Heaven	Ailanthus alitissima	4	210
468	Boxelder	Acer negundo	4	387
469	Knottweed	Fallopia japonica	5	712
470	Tree of Heaven	Ailanthus alitissima 5		1687
471	Tree of Heaven	Ailanthus alitissima	5	586
472	Boxelder	Acer negundo	5	302
473	Tree of Heaven	Ailanthus alitissima	5	1790
		Total So	uare Feet	10,43

## Area 1 - Tree List

<b></b>	C N.	Latin Name	DD::	Notes		1 - 121 - 41	1 1
Tree #		Latin Name	DBH		Area	Latitude	Longitude
1	Tree of Heaven	Ailanthus altissima	18	Cluster of sapplings near driveway	1	42.42484566	-71.16019162
2	Tree of Heaven	Ailanthus altissima	15	Cluster on hillside	1	42.42492357	-71.16073851
3	Tree of Heaven	Ailanthus altissima	30	Cluster on hillside	1	42.42484303	
4	Tree of Heaven	Ailanthus altissima	20	Cluster on hillside	1	42.42491462	
5	Black Oak	Quercus velutina	10	Dead	1	42.42501893	
6	Black Oak	Quercus velutina	13	Dead	1	42.42513042	-71.16087632
7	Red Oak	Quercus rubra	16	Dying	1	42.42525299	-71.16101355
8	Tree of Heaven	Ailanthus altissima	26	Mature, remove?	1	42.42529952	-71.1611481
9	Norway Maple	Acer platanoides	10		1	42.42527324	-71.16176142
10	Black Cherry	Prunus serotina	7	Dead	1	42.42515385	-71.16189084
11	Black Cherry	Prunus serotina	9	Dead	1	42.42518267	-71.16195478
12	Norway Maple	Acer platanoides	5		1	42.42514781	-71.16194143
13	Norway Maple	Acer platanoides	5		1	42.42513953	-71.16198581
14	Red Oak	Quercus rubra	6	Dead - on fence	1	42.4251094	-71.16204576
15	Norway Maple	Acer platanoides	3		1	42.42503218	-71.16200498
16	White Oak	Quercus alba	13	Dead	1	42.42500771	-71.16209452
17	Norway Maple	Acer platanoides	5	Saplings around	1	42.42482615	-71.16215634
18	Norway Maple	Acer platanoides	5		1	42.42483244	
19	Norway Maple	Acer platanoides	3		1	42.42478359	
20	Norway Maple	Acer platanoides	5		1	42.42471841	-71.16229285
21	Tree of Heaven	Ailanthus altissima	10		1	42.4243958	
22	Tree of Heaven	Ailanthus altissima	10		1	42.42437938	
23	Tree of Heaven	Ailanthus altissima	10		1	42.42438142	-71.16273344
24	Norway Maple	Acer platanoides	10		1	42.42436564	
25	Tree of Heaven	Ailanthus altissima	10		1	42.42436893	
26	Tree of Heaven	Ailanthus altissima	9		1	42.4243465	
27	Tree of Heaven	Ailanthus altissima	12		1	42.4243036	-71.16272655
28	Tree of Heaven	Ailanthus altissima	11		1	42.4243030	
29	Tree of Heaven	Ailanthus altissima	8		1	42.42427851	-71.16273884
30	Tree of Heaven	Ailanthus altissima	10		1	42.42427831	
31	Tree of Heaven	Ailanthus altissima	9		1	42.42425774	-71.16276274
32	Norway Maple	Acer platanoides	4		1	42.42423213	
33	, ,		5			42.42424183	-71.16281624
	Norway Maple Tree of Heaven	Acer platanoides	12		1		
34		Ailanthus altissima			1	42.42416802	-71.16275533
35	Tree of Heaven	Ailanthus altissima	12		1	42.42416952	-71.16282845
36	Norway Maple	Acer platanoides	8		1	42.42413379	
37	Tree of Heaven	Ailanthus altissima	13		1	42.42418151	
38	Tree of Heaven	Ailanthus altissima	11		1	42.42414005	-71.1628957
39	Tree of Heaven	Ailanthus altissima	12	Stump	1	42.42412232	-71.16281402
40	Boxelder	Acer negundo	24	Cluster of three	1	42.42409199	
41	White Oak	Quercus alba	18	Dead	1	42.42478249	
42	Tree of Heaven	Ailanthus altissima	14		1	42.42402317	-71.1627737
43	Norway Maple	Acer platanoides	8		1	42.42401581	-71.16290217
44	Norway Maple	Acer platanoides	6		1	42.42402015	
45	Norway Maple	Acer platanoides	8		1	42.42401404	
46	Tree of Heaven	Ailanthus altissima	10		1	42.42400268	
47	Tree of Heaven	Ailanthus altissima	15	Stump	1	42.42393795	-71.16271515
48	Tree of Heaven	Alianthus altisma	12		1	42.42393604	-71.16279222
49	Tree of Heaven	Alianthus altisma	10		1	42.42393703	-71.16287985
50	Tree of Heaven	Alianthus altisma	10		1	42.42394294	-71.16298395
51	Norway Maple	Acer platanoides	10		1	42.42386079	-71.16302617
52	Tree of Heaven	Alianthus altisma	11		1	42.42388945	
53	Tree of Heaven	Alianthus altisma	11		1	42.42387644	
54	Tree of Heaven	Alianthus altisma	12		1	42.42387903	
55	Norway Maple	Acer platanoides	20	5-Stem cluster	1	42.42389276	-71.16264281
56	Boxelder	Acer negundo	4		1	42.42384941	-71.16262116
57	Norway Maple	Acer platanoides	16		1	42.42381754	
58	Norway Maple	Acer platanoides	14		1	42.42381611	-71.16294318
59	Norway Maple	Acer platanoides	14		1	42.42379849	-71.1630519
	way wapic	piatariolaes	1 17	ļ		.2.72373043	, 1.1030313

T "	Camana Na	Latin Nama	DDU	Notes 1	A	I nata i ala	Lamaitudo
Tree #		Latin Name	DBH	Notes 1	Area	Latitude	Longitude
60	Black Locust	Robinia pseudoacacia	13		1	42.42373158	-71.16304551 -71.16296773
61	Norway Maple	Acer platanoides	7		1	42.42376722 42.42376661	-71.16296773
62 63	Norway Maple Norway Maple	Acer platanoides	7		1	42.42375777	-71.1628949
64	Tree of Heaven	Acer platanoides Ailanthus altissima	26		1	42.42375777	-71.16280449
65	Black Locust	Robinia pseudoacacia	4		1	42.42377316	-71.1626861
66	Red Oak	Quercus rubra	30	Dead	1	42.42370812	-71.16261186
67	Tree of Heaven	Ailanthus altissima	2	Dead	1	42.42370812	-71.16259909
68	Tree of Heaven	Ailanthus altissima	2		1	42.42377548	-71.16259403
69	Tree of Heaven	Ailanthus altissima	2		1	42.42377717	-71.16261288
70	Tree of Heaven	Ailanthus altissima	2		1	42.42377162	-71.16260372
71	Tree of Heaven	Ailanthus altissima	2		1	42.42373792	-71.1625177
72	Tree of Heaven	Ailanthus altissima	2		1	42.42373309	-71.16250956
73	Tree of Heaven	Ailanthus altissima	2		1	42.42372866	-71.16249957
74	Tree of Heaven	Ailanthus altissima	2		1	42.42372388	-71.16248939
75	Tree of Heaven	Ailanthus altissima	2		1	42.42371928	-71.16247972
76	Tree of Heaven	Ailanthus altissima	4		1	42.42369785	-71.16266871
77	Boxelder	Acer negundo	5		1	42.42371577	-71.16263433
78	Boxelder	Acer negundo	4		1	42.42369952	-71.16260844
79	Tree of Heaven	Ailanthus altissima	2		1	42.42367117	-71.1625151
80	Tree of Heaven	Ailanthus altissima	2		1	42.42366948	-71.16250971
81	Tree of Heaven	Ailanthus altissima	2		1	42.42366566	-71.16251466
82	Tree of Heaven	Ailanthus altissima	2		1	42.42366499	-71.16250829
83	Tree of Heaven	Ailanthus altissima	2		1	42.42366108	-71.16251382
84	Tree of Heaven	Ailanthus altissima	6		1	42.42363768	-71.1626781
85	Tree of Heaven	Ailanthus altissima	3		1	42.42362533	-71.16265387
86	Norway Maple	Acer platanoides	8		1	42.42364843	-71.16242065
87	Tree of Heaven	Ailanthus altissima	6		1	42.42363586	-71.16236069
88	Tree of Heaven	Ailanthus altissima	14		1	42.42360297	-71.16246791
89	Tree of Heaven	Ailanthus altissima	13		1	42.42358911	-71.16241829
90	Tree of Heaven	Ailanthus altissima	12		1	42.42357822	-71.16237135
91	Tree of Heaven	Ailanthus altissima	10		1	42.42356931	-71.16233514
92	Black Locust	Robinia pseudoacacia	5		1	42.42355446	-71.16229357
93	Black Locust	Robinia pseudoacacia	7		1	42.42352675	-71.16230027
94	Black Locust	Robinia pseudoacacia	6		1	42.42349804	-71.16232039
95	Tree of Heaven	Ailanthus altissima	2		1	42.42348884	-71.16226535
96	Tree of Heaven	Ailanthus altissima	2		1	42.42348092	-71.16224657
97	Tree of Heaven	Ailanthus altissima	2		1	42.42346706	-71.16223048
98	Tree of Heaven	Ailanthus altissima	2		1	42.42347399	-71.16229753
99	Norway Maple	Acer platanoides	6		1	42.42346508	-71.1622868
100	Tree of Heaven	Ailanthus altissima	2		1	42.4234624	-71.16225328
101	Tree of Heaven	Ailanthus altissima	2		1	42.4234475	-71.16224389
102	Tree of Heaven	Ailanthus altissima	4		1	42.42336768	-71.16212607
103	Tree of Heaven	Ailanthus altissima	4		1	42.4233558	-71.16207779
104	Tree of Heaven	Ailanthus altissima	3		1	42.42333204	-71.16204024
105	Boxelder	Acer negundo	14		1	42.42331485	-71.1618714
106	Black Locust	Robinia pseudoacacia	4		1	42.42332084	-71.16176705
107	Tree of Heaven	Ailanthus altissima	2		1	42.42328515	-71.16179898
108	Black Locust	Robinia pseudoacacia	3		1	42.42327525	-71.16184726
109	Boxelder	Acer negundo	3		1	42.42328119	-71.16189286
	Black Locust	Robinia pseudoacacia	12		1	42.42329307	-71.16194114
111	Tree of Heaven	Ailanthus altissima	3		1	42.4232767	-71.16201837
112	Tree of Heaven	Ailanthus altissima	5		1	42.42329662	-71.16201392
113	Tree of Heaven	Ailanthus altissima	5		1	42.42327922	-71.16204513
114	Black Locust	Robinia pseudoacacia	12		1	42.42330708	-71.1620462
115	Tree of Heaven	Ailanthus altissima	5		1	42.4232857	-71.16209105
116	Tree of Heaven	Ailanthus altissima	4		1	42.42329176	-71.16212064
117	Tree of Heaven	Ailanthus altissima Acer negundo	3		1	42.4233261	-71.16208316
118	Boxelder	Acer negundo	4		1	42.42333996	-71.16211266

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
119	Tree of Heaven	Ailanthus altissima	3		1	42.4233261	-71.16214485
120	Black Locust	Robinia pseudoacacia	12		1	42.42333996	-71.16217704
121	Tree of Heaven	Ailanthus altissima	3		1	42.42333402	-71.16227091
122	Tree of Heaven	Ailanthus altissima	3		1	42.42333996	-71.1623326
123	Wild Rose	Rosa multiflora	10	Cluster	1	42.42336174	-71.16231919
124	Boxelder	Acer negundo	5		1	42.42337758	-71.16226287
125	Norway Maple	Acer platanoides	15		1	42.42341718	-71.16231383
126	Wild Rose	Rosa multiflora	10	Cluster	1	42.4234091	-71.162451
127	Boxelder	Acer negundo	15		1	42.42346723	-71.16243362
128	Tree of Heaven	Ailanthus altissima	11		1	42.42353693	-71.16245544
129	Norway Maple	Acer platanoides	12		1	42.42351744	-71.16253351
130	Wild Rose	Rosa multiflora	10	Cluster	1	42.42348722	-71.16261337
131	Wild Rose	Rosa multiflora	10	Cluster	1	42.42352981	-71.16260825
132	White Oak	Quercus alba	18	Dead	1	42.42358097	-71.16263284
133	Tree of Heaven	Ailanthus altissima	2		1	42.42352296	-71.16272231
134	Tree of Heaven	Ailanthus altissima	3		1	42.42352916	-71.16277616
135	Tree of Heaven	Ailanthus altissima	3		1	42.42352322	-71.16281908
136	Tree of Heaven	Ailanthus altissima	3		1	42.42354104	
137	Tree of Heaven	Ailanthus altissima	3		1	42.4235252	-71.16291295
138	Norway Maple	Acer platanoides	5		1	42.42359161	-71.1627519
139	Norway Maple	Acer platanoides	4		1	42.42364012	-71.16276128
140	Norway Maple	Acer platanoides	7		1	42.4236025	-71.16283236
141	Norway Maple	Acer platanoides	5		1	42.42358666	-71.16289539
142	Norway Maple	Acer platanoides	6		1	42.42367278	
143	Norway Maple	Acer platanoides	7		1	42.42363517	-71.1629772
144	Norway Maple	Acer platanoides	4		1	42.42358171	-71.16297452
145	Poison Ivy	Toxicodendron radicans	10	Cluster	1	42.42348757	-71.16298339
146	Tree of Heaven	Ailanthus altissima	3		1	42.42349551	-71.16307561
147	Tree of Heaven	Ailanthus altissima	3		1	42.42348858	-71.16311316
148	Norway Maple	Acer platanoides	7		1	42.42353617	
149	Shagbark Hickory	Carya ovata	12	Dead	1	42.42358565	-71.1630681
150	Norway Maple	Acer platanoides	6		1	42.42363418	-71.16306035
151	Norway Maple	Acer platanoides	6		1	42.42367377	-71.16309254
152	Norway Maple	Acer platanoides	7		1	42.42374604	-71.1631502
153	Norway Maple	Acer platanoides	5		1	42.42370941	-71.16319312
154	Norway Maple	Acer platanoides	8		1	42.4236906	-71.16323201
155	Norway Maple	Acer platanoides	12		1	42.42364804	-71.16322799
156	Norway Maple	Acer platanoides	6		1	42.4235926	-71.163173
157	Norway Maple	Acer platanoides	6		1	42.42360545	-71.16327195
158	Norway Maple	Acer platanoides	5		1	42.4236025	-71.16335271
159	Norway Maple	Acer platanoides	4		1	42.42355894	
160	Norway Maple	Acer platanoides	7		1	42.42351142	-71.16320385
161	Tree of Heaven	Ailanthus altissima	3		1	42.42348165	-71.16320302
162	Norway Maple	Acer platanoides	4		1	42.4234718	
163	Norway Maple	Acer platanoides	4		1	42.42350845	-71.16330309
164	Norway Maple	Acer platanoides	8		1	42.42355201	
165	Norway Maple	Acer platanoides	5		1	42.42352724	
166	Norway Maple	Acer platanoides	11		1	42.42348766	
167	Norway Maple	Acer platanoides	7		1	42.42347477	-71.16345702
	Norway Maple	Acer platanoides	11		1		-71.1634007
169	Norway Maple	Acer platanoides	8		1	42.42340542	-71.16345649
170	Norway Maple	Acer platanoides	8		1	42.42305997	-71.16392775
171	Norway Maple	Acer platanoides	8		1	42.42286296	-71.16412355
172	Norway Maple	Acer platanoides	17		1	42.42284663	-71.16414903
173	Norway Maple	Acer platanoides	17		1	42.42281742	-71.16418457
174	Norway Maple	Acer platanoides	9		1	42.42279614	-71.16417049
175	Norway Maple	Acer platanoides	10		1	42.42277238	-71.16419664
176	Norway Maple	Acer platanoides	7		1	42.42276495	-71.16421341
728	Norway Maple	Acer platanoides	8	Dead	1	42.42491605	-71.16009082
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Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
729	Norway Maple	Acer platanoides	6		1	42.42494377	-71.16005059
730	Norway Maple	Acer platanoides	3		1	42.42498139	-71.16002779
731	Norway Maple	Acer platanoides	4		1	42.42501405	-71.16002243
732	Norway Maple	Acer platanoides	4		1	42.42499129	-71.16009082
733	Norway Maple	Acer platanoides	3		1	42.42498035	-71.16011568
734	Norway Maple	Acer platanoides	3		1	42.42498634	-71.16013106
735	Norway Maple	Acer platanoides	6		1	42.42501603	-71.16012972
736	Norway Maple	Acer platanoides	4		1	42.42499178	-71.16018135
737	Tree of Heaven	Ailanthus altissima	7		1	42.42521402	-71.16087872
738	Tree of Heaven	Ailanthus altissima	6		1	42.42524075	-71.16093237

Total Tree Count 187

## Area 1 – Shrub List

Shrub Bed #	Common	Latin	Area	Sq Ft
434	Tree of Heaven	Ailanthus alitissima	1	157
435	Tree of Heaven	Ailanthus alitissima	1	1063
436	Tree of Heaven	Ailanthus alitissima	1	549
437	Tree of Heaven	Ailanthus alitissima	1	621
438	Tree of Heaven	Ailanthus alitissima	1	113
439	Tree of Heaven	ree of Heaven Ailanthus alitissima		179
440	Boxelder	Acer negundo	1	17
441	Boxelder	Acer negundo	1	38
442	Boxelder	Acer negundo	1	13
443	Wild Rose	Rosa multiflora	1	72
450	Wild Rose	Rosa multiflora	1	57
451	Wild Rose	Rosa multiflora	1	141
452	Poison Ive	Toxicodendron radica	1	93
			Total Square Feet	3,115

## Area 2 – Tree List

Troo #	Common Namo	Latin Namo	DBH	Notos 1	Aroa	Latitudo	Longitudo
Tree #		Latin Name	DBH	Notes 1	Area	Latitude	Longitude
177	Norway Maple	Acer platanoides	14		2	42.42308064	
178	Norway Maple	Acer platanoides	6		2	42.42306876	-71.16368732
179	Norway Maple	Acer platanoides	5		2	42.42304995	-71.16370743
180	Norway Maple	Acer platanoides	10		2	42.42306183	-71.16361087
181	Norway Maple	Acer platanoides	10		2	42.42304797	-71.16359612
182	Norway Maple	Acer platanoides	6		2	42.42301183	-71.16365312
183	Buckthorn	Rhamnus cathartica	10		2	42.42301728	-71.16366049
184	Norway Maple	Acer platanoides	10		2	42.42302619	
185	Buckthorn	Rhamnus cathartica	10		2	42.42301728	-71.16374364
186	Norway Maple	Acer platanoides	12		2	42.42300837	-71.16372487
187	Norway Maple	Acer platanoides	13		2	42.42299055	-71.16369536
188	Norway Maple	Acer platanoides	9		2	42.42297075	-71.16367793
189	Norway Maple	Acer platanoides	14		2	42.42295293	-71.16372219
190	Norway Maple	Acer platanoides	12		2	42.4229559	-71.16378991
191	Norway Maple	Acer platanoides	10		2	42.42292818	
192	Norway Maple	Acer platanoides	14		2	42.42292521	-71.1635988
193	Buckthorn	Rhamnus cathartica	6		2	42.42289918	-71.16387005
194	Norway Maple	Acer platanoides	16		2	42.42289155	-71.16384624
195	Norway Maple	Acer platanoides	12		2	42.42287373	-71.16377315
196	Norway Maple	Acer platanoides	5		2	42.42285987	-71.16374901
197	Norway Maple	Acer platanoides	8		2	42.42283611	-71.16370207
198	Norway Maple	Acer platanoides	12		2	42.42282225	-71.16391597
199	Norway Maple	Acer platanoides	9		2	42.42280146	-71.16386568
200	Norway Maple	Acer platanoides	5		2	42.42279454	
201	Norway Maple	Acer platanoides	12		2	42.42273315	-71.1639723
202	Norway Maple	Acer platanoides	12	Dead	2	42.42272919	
203	Norway Maple	Acer platanoides	13		2	42.42274602	-71.16389519
204	Norway Maple	Acer platanoides	12		2	42.42271335	-71.16390189
205	Norway Maple	Acer platanoides	14		2	42.42269949	-71.16393944
206	Norway Maple	Acer platanoides	12		2	42.42265296	
207	Norway Maple	Acer platanoides	8		2	42.42265296	
208	Norway Maple	Acer platanoides	14		2	42.42262425	-71.16386837
209	Norway Maple	Acer platanoides	12		2	42.42265989	-71.16369268
210	Norway Maple	Acer platanoides	9		2	42.42268563	-71.16367659
211	Norway Maple	Acer platanoides	10		2	42.42271434	-71.16369804
212	Norway Maple	Acer platanoides	6		2	42.4226886	-71.16380399
213	Norway Maple	Acer platanoides	11		2	42.42273711	-71.16379997
214	Norway Maple	Acer platanoides	12		2	42.42276384	-71.16367927
215	Norway Maple	Acer platanoides	8		2	42.42275196	
216	Black Locust	Robinia pseudoacacia	15		2		-71.16349286
217	Norway Maple	Acer platanoides	13		2	42.42280641	-71.16365915
218	Norway Maple	Acer platanoides	9		2	42.42280196	-71.1635988
219	Norway Maple	Acer platanoides	60	Multi-stem	2	42.42283413	-71.16349822
220	Norway Maple	Acer platanoides	4		2	42.4230247	-71.16351834
221	Norway Maple	Acer platanoides	4		2	42.42301579	-71.16347408
222	Norway Maple	Acer platanoides	4		2	42.42299401	-71.16352102
223	Norway Maple	Acer platanoides	4		2	42.42298807	-71.16349956

226								
Norway Maple   Acer platanoides   5   2   42.42295738   -71.16331642	Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	
226	224	Norway Maple		5		2	42.42296827	-71.16344592
Norway Maple   Acer platanoides   5   2   42.4229168   -71.1634982	225		Acer platanoides	5		2	42.42295738	-71.16341641
Norway Maple   Acer platanoides   7	226	Norway Maple	Acer platanoides	10	Dead	2	42.42292967	-71.16338423
229   Norway Maple   Acer platanoides   6   2   42.42288413   -71.16336009	227	Norway Maple	Acer platanoides	5			42.4229168	-71.16342982
Norway Maple   Acer platanoides   12	228	Norway Maple	Acer platanoides	7		2	42.42288611	-71.16340837
Norway Maple   Acer platanoides   36   Triple-Stem   2   42.42280562   -71.16322194	229	Norway Maple	Acer platanoides	6		2	42.42288413	-71.16336009
232   Norway Maple   Acer platanoides   8   2   42.42277895   71.16323898	230	Norway Maple	Acer platanoides	12		2		
233         Norway Maple         Acer platanoides         4         2         42.42277004         -71.16327653           234         Norway Maple         Acer platanoides         10         2         42.42278879         -71.16337653           235         Norway Maple         Acer platanoides         16         2         42.4227146         -71.16334091           236         Norway Maple         Acer platanoides         10         2         42.42271856         -71.16333728           237         Norway Maple         Acer platanoides         11         2         42.42273737         -71.16333733           238         Black Locust         Robinia pseudoacacia         16         2         42.4226795         -71.16337632           240         Norway Maple         Acer platanoides         6         2         42.42267995         -71.16339638           241         Tree of Heaven         Alianthus altissima         14         2         42.42267995         -71.16339638           241         Norway Maple         Acer platanoides         10         2         42.4226772         -71.16339638           241         Norway Maple         Acer platanoides         11         2         42.4226772         -71.16338023	231	Norway Maple	Acer platanoides	36	Triple-Stem	2	42.42280562	-71.16322194
234   Norway Maple   Acer platanoides   10   2   42.42278879   -71.16333728	232	Norway Maple	Acer platanoides	8		2	42.42277895	-71.16323898
235         Norway Maple         Acer platanoides         16         2         42.42274628         -71.16334091           236         Norway Maple         Acer platanoides         10         2         42.42271466         -71.16333429           237         Norway Maple         Acer platanoides         11         2         42.42271376         -71.16333723           238         Black Locust         Robinia pseudoacaia         16         2         42.42273737         -71.16339723           239         Norway Maple         Acer platanoides         6         2         42.42267995         -71.16339725           240         Norway Maple         Acer platanoides         6         2         42.4226793         -71.16339725           241         Tree of Heaven         Ailanthus altissima         14         2         42.4226727         -71.16334066           241         Tree of Heaven         Ailanthus altissima         14         2         42.4226747         -71.1633706           241         Tree of Heaven         Ailanthus altissima         14         2         42.4226727         -71.1633873           242         Norway Maple         Acer platanoides         11         2         42.42260032         -71.16378739	233	Norway Maple	Acer platanoides	4		2	42.42277004	-71.16327653
236   Norway Maple   Acer platanoides   10   2   42.4227146   -71.1633342	234	Norway Maple	Acer platanoides	10		2	42.42278879	-71.16333728
237         Norway Maple         Acer platanoides         11         2         42.42271856         -71.16337309           238         Black Locust         Robinia pseudoacacia         16         2         42.42273737         -71.16339732           239         Norway Maple         Acer platanoides         6         2         42.4226998         -71.16339568           240         Norway Maple         Acer platanoides         6         2         42.4226948         -71.16339763           241         Tree of Heaven         Ailanthus altissima         14         2         42.422672         -71.16343066           241         Norway Maple         Acer platanoides         10         2         42.422672         -71.16343066           241         Norway Maple         Acer platanoides         10         2         42.4226727         -71.16343066           242         Norway Maple         Acer platanoides         10         2         42.4226727         -71.16343737           243         Norway Maple         Acer platanoides         4         2         42.42264332         -71.16377204           245         Norway Maple         Acer platanoides         5         2         42.422266332         -71.16378733           247 </td <td>235</td> <td>Norway Maple</td> <td>Acer platanoides</td> <td>16</td> <td></td> <td>2</td> <td>42.42274628</td> <td>-71.16334091</td>	235	Norway Maple	Acer platanoides	16		2	42.42274628	-71.16334091
238   Black Locust   Robinia pseudoacacia   16   2   42.42273737   -71.16339723	236	Norway Maple	Acer platanoides	10		2	42.4227146	-71.1633342
239   Norway Maple   Acer platanoides   6   2   42.42267995   -71.16335968	237	Norway Maple	Acer platanoides	11		2	42.42271856	-71.16337309
240         Norway Maple         Acer platanoides         6         2         42.4226948         -71.16339455           241         Tree of Heaven         Ailanthus altissima         14         2         42.4226729         -71.16343066           241         Norway Maple         Acer platanoides         10         2         42.4226749         -71.16343737           242         Norway Maple         Acer platanoides         10         2         42.42264032         -71.16372704           244         Norway Maple         Acer platanoides         4         2         42.42264131         -71.16377264           245         Norway Maple         Acer platanoides         5         2         42.4226648         -71.1637739           246         Norway Maple         Acer platanoides         8         2         42.42255555         -71.16386702           248         Norway Maple         Acer platanoides         7         2         42.42255555         -71.16386702           249         Norway Maple         Acer platanoides         8         2         42.4225535         -71.16386702           251         Norway Maple         Acer platanoides         4         2         42.42255136         -71.1637309           251	238	Black Locust	Robinia pseudoacacia	16		2	42.42273737	-71.16339723
241         Tree of Heaven         Ailanthus altissima         14         2         42.42271259         -71.16343066           241         Norway Maple         Acer platanoides         10         2         42.422672         -71.16343737           242         Norway Maple         Acer platanoides         11         2         42.42264032         -71.16378623           243         Norway Maple         Acer platanoides         10         2         42.42264032         -71.16377264           244         Norway Maple         Acer platanoides         4         2         42.42264032         -71.16377264           245         Norway Maple         Acer platanoides         5         2         42.42256535         -71.1638733           246         Norway Maple         Acer platanoides         8         2         42.42255535         -71.16380533           247         Norway Maple         Acer platanoides         7         2         42.42255535         -71.16386702           248         Norway Maple         Acer platanoides         8         2         42.42255136         -71.16386702           250         Norway Maple         Acer platanoides         8         2         42.42254312         -71.1638602           250	239	Norway Maple	Acer platanoides	6		2	42.42267995	-71.16335968
241         Tree of Heaven         Ailanthus altissima         14         2         42.42271259         -71.16343066           241         Norway Maple         Acer platanoides         10         2         42.422672         -71.16343737           242         Norway Maple         Acer platanoides         11         2         42.42264032         -71.16358623           243         Norway Maple         Acer platanoides         10         2         42.42264032         -71.16377264           244         Norway Maple         Acer platanoides         4         2         42.4226433         -71.16377264           245         Norway Maple         Acer platanoides         5         2         42.42256535         -71.16378739           246         Norway Maple         Acer platanoides         8         2         42.42256535         -71.1638703           247         Norway Maple         Acer platanoides         7         2         42.42255536         -71.1638702           248         Norway Maple         Acer platanoides         14         2         42.4225536         -71.1638702           250         Norway Maple         Acer platanoides         8         2         42.42253432         -71.163701229           251	240		Acer platanoides	6		2	42.4226948	-71.16339455
242         Norway Maple         Acer platanoides         11         2         42.42267497         -71.16358623           243         Norway Maple         Acer platanoides         10         2         42.42264032         -71.16377204           244         Norway Maple         Acer platanoides         4         2         42.42260468         -71.16377204           245         Norway Maple         Acer platanoides         5         2         42.42260468         -71.16378739           246         Norway Maple         Acer platanoides         8         2         42.42256535         -71.16380533           247         Norway Maple         Acer platanoides         7         2         42.42255595         -71.16380533           248         Norway Maple         Acer platanoides         14         2         42.42255156         -71.1638402           249         Norway Maple         Acer platanoides         8         2         42.42254132         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.42263497         -71.16371229           251         Norway Maple         Acer platanoides         9         2         42.42260349         -71.16378129           253	241	Tree of Heaven		14		2	42.42271259	-71.16343066
242         Norway Maple         Acer platanoides         11         2         42.42267497         -71.16358623           243         Norway Maple         Acer platanoides         10         2         42.42264032         -71.16377704           244         Norway Maple         Acer platanoides         4         2         42.42260468         -71.16377204           245         Norway Maple         Acer platanoides         5         2         42.42260468         -71.163778739           246         Norway Maple         Acer platanoides         8         2         42.42256535         -71.16380533           247         Norway Maple         Acer platanoides         7         2         42.42255535         -71.16380533           247         Norway Maple         Acer platanoides         14         2         42.42255535         -71.16380533           248         Norway Maple         Acer platanoides         14         2         42.42255356         -71.16386702           249         Norway Maple         Acer platanoides         8         2         42.42253432         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.422606171         -71.16374324           251 <td>241</td> <td>Norway Maple</td> <td>Acer platanoides</td> <td>10</td> <td></td> <td>2</td> <td>42.422672</td> <td>-71.16343737</td>	241	Norway Maple	Acer platanoides	10		2	42.422672	-71.16343737
243         Norway Maple         Acer platanoides         10         2         42.42264032         -71.16372704           244         Norway Maple         Acer platanoides         4         2         42.42264131         -71.16377264           245         Norway Maple         Acer platanoides         5         2         42.4226648         -71.1638739           246         Norway Maple         Acer platanoides         7         2         42.42255535         -71.16386702           248         Norway Maple         Acer platanoides         14         2         42.4225136         -71.16386702           249         Norway Maple         Acer platanoides         8         2         42.4225132         -71.1638402           250         Norway Maple         Acer platanoides         8         2         42.42254132         -71.1637414           250         Norway Maple         Acer platanoides         4         2         42.4225432         -71.1637314           251         Norway Maple         Acer platanoides         4         2         42.4225488         -71.16373509           251         Norway Maple         Acer platanoides         9         2         42.42260349         -71.16368011           253 <td< td=""><td>242</td><td></td><td>Acer platanoides</td><td>11</td><td></td><td>2</td><td>42.42267497</td><td>-71.16358623</td></td<>	242		Acer platanoides	11		2	42.42267497	-71.16358623
244         Norway Maple         Acer platanoides         4         2         42.42264131         -71.16377264           245         Norway Maple         Acer platanoides         5         2         42.42260468         -71.16378739           246         Norway Maple         Acer platanoides         8         2         42.42256535         -71.16380533           247         Norway Maple         Acer platanoides         7         2         42.42255595         -71.16386702           248         Norway Maple         Acer platanoides         14         2         42.42255136         -71.1638402           249         Norway Maple         Acer platanoides         8         2         42.4225132         -71.1638402           250         Norway Maple         Acer platanoides         4         2         42.42251432         -71.1637414           251         Norway Maple         Acer platanoides         4         2         42.42258488         -71.1637129           251         Norway Maple         Acer platanoides         9         2         42.42260071         -71.1637809           252         Norway Maple         Acer platanoides         13         2         42.42260029         -71.16368011           253	243	Norway Maple	Acer platanoides	10		2		-71.16372704
245         Norway Maple         Acer platanoides         5         2         42.42260468         -71.16378739           246         Norway Maple         Acer platanoides         8         2         42.42256355         -71.16380533           247         Norway Maple         Acer platanoides         7         2         42.42255595         -71.16386702           248         Norway Maple         Acer platanoides         14         2         42.42251326         -71.1638402           249         Norway Maple         Acer platanoides         8         2         42.4225132         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.42254132         -71.16371229           251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.16371229           252         Norway Maple         Acer platanoides         9         2         42.42260171         -71.163780801           253         Norway Maple         Acer platanoides         13         2         42.42260252         -71.163788489           254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16370425           255	244		Acer platanoides	4		2	42.42264131	-71.16377264
246         Norway Maple         Acer platanoides         8         2         42.42256535         -71.16380533           247         Norway Maple         Acer platanoides         7         2         42.42255595         -71.16386702           248         Norway Maple         Acer platanoides         14         2         42.42251536         -71.1638402           249         Norway Maple         Acer platanoides         8         2         42.4225132         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.42254132         -71.16374129           251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.163731229           251         Norway Maple         Acer platanoides         9         2         42.4226349         -71.163731229           252         Norway Maple         Acer platanoides         13         2         42.4226349         -71.16378818           253         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16368489           255         Norway Maple         Acer platanoides         9         2         42.42258092         -71.16363585           255	245		Acer platanoides	5		2	42.42260468	-71.16378739
247         Norway Maple         Acer platanoides         7         2         42.42255595         -71.16386702           248         Norway Maple         Acer platanoides         14         2         42.42251536         -71.1638402           249         Norway Maple         Acer platanoides         8         2         42.42254132         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.42254848         -71.16371229           251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.16373509           252         Norway Maple         Acer platanoides         9         2         42.42262349         -71.16376509           252         Norway Maple         Acer platanoides         13         2         42.42260052         -71.16368011           253         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16368081           254         Norway Maple         Acer platanoides         9         2         42.42252052         -71.16370425           255         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370425           256	246		Acer platanoides	8			42.42256535	-71.16380533
248         Norway Maple         Acer platanoides         14         2         42.42251536         -71.1638402           249         Norway Maple         Acer platanoides         8         2         42.42254132         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.42258488         -71.16371229           251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.16373509           252         Norway Maple         Acer platanoides         9         2         42.42262349         -71.1637509           252         Norway Maple         Acer platanoides         13         2         42.42262052         -71.16368011           253         Norway Maple         Acer platanoides         5         2         42.42262052         -71.16368889           254         Norway Maple         Acer platanoides         9         2         42.422525251         -71.16363585           255         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370425           256         Norway Maple         Acer platanoides         8         2         42.4224702         -71.16376996           257	247	,		7		2	42.42255595	-71.16386702
249         Norway Maple         Acer platanoides         8         2         42.42254132         -71.16374314           250         Norway Maple         Acer platanoides         4         2         42.42258488         -71.16371229           251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.16373509           252         Norway Maple         Acer platanoides         9         2         42.42262349         -71.16368011           253         Norway Maple         Acer platanoides         13         2         42.42262052         -71.16358489           254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16363585           255         Norway Maple         Acer platanoides         9         2         42.4225251         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370425           257         Norway Maple         Acer platanoides         8         2         42.4224702         -71.16370425           258         Norway Maple         Acer platanoides         8         2         42.4224702         -71.16370264           259	248	· · · · · · · · · · · · · · · · · · ·	Acer platanoides	14		2	42.42251536	-71.1638402
251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.16373509           252         Norway Maple         Acer platanoides         9         2         42.42262349         -71.16368011           253         Norway Maple         Acer platanoides         13         2         42.42262052         -71.16358489           254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16363585           255         Norway Maple         Acer platanoides         9         2         42.4225251         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370425           257         Norway Maple         Acer platanoides         8         2         42.42247202         -71.16376966           258         Norway Maple         Acer platanoides         10         2         42.42247702         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.42247796         -71.16377264           260	249			8		2		
251         Norway Maple         Acer platanoides         4         2         42.42260171         -71.16373509           252         Norway Maple         Acer platanoides         9         2         42.42262349         -71.16368011           253         Norway Maple         Acer platanoides         13         2         42.42262052         -71.16358489           254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16363585           255         Norway Maple         Acer platanoides         9         2         42.4225251         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370425           257         Norway Maple         Acer platanoides         8         2         42.42247202         -71.16376966           258         Norway Maple         Acer platanoides         10         2         42.42247702         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.42247796         -71.16377264           260	250		•	4				-71.16371229
252         Norway Maple         Acer platanoides         9         2         42.42262349         -71.16368011           253         Norway Maple         Acer platanoides         13         2         42.42262052         -71.16358489           254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16363585           255         Norway Maple         Acer platanoides         9         2         42.42249875         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370425           257         Norway Maple         Acer platanoides         8         2         42.42247202         -71.16376996           258         Norway Maple         Acer platanoides         10         2         42.42247202         -71.16370885           258         Norway Maple         Acer platanoides         8         2         42.42247706         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.42247796         -71.16371229           260         Norway Maple         Acer platanoides         7         2         42.42247099         -71.16367206           262	251	, , , , , , , , , , , , , , , , , , , ,	·	4		2	42.42260171	-71.16373509
253         Norway Maple         Acer platanoides         13         2         42.42262052         -71.16358489           254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16363585           255         Norway Maple         Acer platanoides         9         2         42.42252251         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16370996           257         Norway Maple         Acer platanoides         8         2         42.42247202         -71.16370996           258         Norway Maple         Acer platanoides         10         2         42.42247202         -71.1637096           259         Norway Maple         Acer platanoides         10         2         42.4224704         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.42247796         -71.163677264           260         Norway Maple         Acer platanoides         7         2         42.42247024         -71.16367206           262	252		•	9		2	42.42262349	-71.16368011
254         Norway Maple         Acer platanoides         5         2         42.42258092         -71.16363585           255         Norway Maple         Acer platanoides         9         2         42.42252251         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16376996           257         Norway Maple         Acer platanoides         8         2         42.42247202         -71.16380885           258         Norway Maple         Acer platanoides         10         2         42.42244704         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.42247796         -71.16371229           260         Norway Maple         Acer platanoides         7         2         42.42247049         -71.16369754           261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.4225845         -71.16360501           264	253		Acer platanoides	13		2	42.42262052	-71.16358489
255         Norway Maple         Acer platanoides         9         2         42.42252251         -71.16370425           256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16376996           257         Norway Maple         Acer platanoides         8         2         42.4224702         -71.16380885           258         Norway Maple         Acer platanoides         10         2         42.4224702         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.4224796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.4224796         -71.16377264           260         Norway Maple         Acer platanoides         7         2         42.4224796         -71.1636774           261         Norway Maple         Acer platanoides         10         2         42.42257845         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16350174           265			•	5				
256         Norway Maple         Acer platanoides         18         2         42.42249875         -71.16376996           257         Norway Maple         Acer platanoides         8         2         42.4224702         -71.16380885           258         Norway Maple         Acer platanoides         10         2         42.42244034         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.4224796         -71.16377264           259         Norway Maple         Acer platanoides         7         2         42.42247796         -71.16367226           260         Norway Maple         Acer platanoides         7         2         42.42247024         -71.16369754           261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16364658           263         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16350174           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16341601           267	255		•	9				-71.16370425
257         Norway Maple         Acer platanoides         8         2         42.42247202         -71.16380885           258         Norway Maple         Acer platanoides         10         2         42.42244034         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.4224796         -71.16371229           260         Norway Maple         Acer platanoides         7         2         42.4224709         -71.16369754           261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16367206           263         Norway Maple         Acer platanoides         7         2         42.42252845         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16355136           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         14         2         42.42264728         -71.16341601           267			Acer platanoides	18				-71.16376996
258         Norway Maple         Acer platanoides         10         2         42.42244034         -71.16377264           259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16371229           260         Norway Maple         Acer platanoides         7         2         42.42245024         -71.16369754           261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16367206           263         Norway Maple         Acer platanoides         7         2         42.42252845         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16355136           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         8         2         42.42264728         -71.16341601           267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268				8		2		
259         Norway Maple         Acer platanoides         8         2         42.42247796         -71.16371229           260         Norway Maple         Acer platanoides         7         2         42.42245024         -71.16369754           261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16364658           263         Norway Maple         Acer platanoides         7         2         42.42254825         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16355136           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         8         2         42.42264728         -71.16341601           267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295		· · · · · · · · · · · · · · · · · · ·						
260         Norway Maple         Acer platanoides         7         2         42.42245024         -71.16369754           261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16364658           263         Norway Maple         Acer platanoides         7         2         42.42254825         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16355136           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         8         2         42.42264728         -71.16341601           267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295		, ,	·					
261         Norway Maple         Acer platanoides         7         2         42.42247499         -71.16367206           262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16364658           263         Norway Maple         Acer platanoides         7         2         42.42254825         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16355136           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         8         2         42.42264728         -71.16341601           267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295								
262         Norway Maple         Acer platanoides         10         2         42.42252845         -71.16364658           263         Norway Maple         Acer platanoides         7         2         42.42254825         -71.16360501           264         Norway Maple         Acer platanoides         12         2         42.42257597         -71.16355136           265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         8         2         42.42264728         -71.16341601           267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295		, , , , , , , , , , , , , , , , , , , ,	Acer platanoides	7		2		
263     Norway Maple     Acer platanoides     7     2     42.42254825     -71.16360501       264     Norway Maple     Acer platanoides     12     2     42.42257597     -71.16355136       265     Norway Maple     Acer platanoides     14     2     42.42263042     -71.16350174       266     Norway Maple     Acer platanoides     8     2     42.42264728     -71.16341601       267     Norway Maple     Acer platanoides     14     2     42.42261858     -71.16341735       268     Norway Maple     Acer platanoides     10     2     42.42260769     -71.16346295			•	10				
264       Norway Maple       Acer platanoides       12       2       42.42257597       -71.16355136         265       Norway Maple       Acer platanoides       14       2       42.42263042       -71.16350174         266       Norway Maple       Acer platanoides       8       2       42.42264728       -71.16341601         267       Norway Maple       Acer platanoides       14       2       42.42261858       -71.16341735         268       Norway Maple       Acer platanoides       10       2       42.42260769       -71.16346295								
265         Norway Maple         Acer platanoides         14         2         42.42263042         -71.16350174           266         Norway Maple         Acer platanoides         8         2         42.42264728         -71.16341601           267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295			•					-71.16355136
266       Norway Maple       Acer platanoides       8       2       42.42264728       -71.16341601         267       Norway Maple       Acer platanoides       14       2       42.42261858       -71.16341735         268       Norway Maple       Acer platanoides       10       2       42.42260769       -71.16346295		, ,						
267         Norway Maple         Acer platanoides         14         2         42.42261858         -71.16341735           268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295								-71.16341601
268         Norway Maple         Acer platanoides         10         2         42.42260769         -71.16346295								
			•					-71.16346295
								-71.1635299

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
	Norway Maple	Acer platanoides	4	Notes 1	2	42.42251162	-71.16357416
	Black Oak	Quercus velutina	50	Dead	2	42.42231102	-71.16363853
	Norway Maple	Acer platanoides	9	Deau	2	42.42244727	-71.16371632
	Norway Maple	Acer platanoides	4		2	42.42242034	-71.16371032
274			7		2	42.42240008	-71.16369754
	Norway Maple	Acer platanoides	6		2		-71.16369734
	Norway Maple	Acer platanoides	4	Dood		42.42241163	
	Shagbark Hickory	Carya ovata		Dead	2	42.42239282	-71.16359964
	Norway Maple	Acer platanoides	7	D 1	2	42.4224344	
278	Black Oak	Quercus velutina	30	Dead	2	42.4224641	-71.1635755
	Norway Maple	Acer platanoides	16		2	42.42245968	
280	Norway Maple	Acer platanoides	10		2	42.42249479	-71.16353661
	Norway Maple	Acer platanoides	4		2	42.42246463	-71.16347971
282	Norway Maple	Acer platanoides	4		2	42.42248047	-71.16343545
283	Norway Maple	Acer platanoides	12		2	42.4224973	-71.16347837
284	Norway Maple	Acer platanoides	7		2	42.42252304	-71.16340729
285	Norway Maple	Acer platanoides	4		2	42.42255274	-71.16345557
286	Norway Maple	Acer platanoides	4		2	42.42260818	-71.16335097
287	Norway Maple	Acer platanoides	12		2	42.42263293	-71.16334158
288	Norway Maple	Acer platanoides	12		2	42.42259478	-71.16367474
289	Knotweed	Fallopia japonica	10		2	42.4226849	-71.16329129
290	Black Locust	Robinia pseudoacacia	15		2	42.42270668	-71.16329531
291	Norway Maple	Acer platanoides	4		2	42.42274331	-71.16319607
292	Norway Maple	Acer platanoides	5		2	42.42271559	-71.16319607
293	Norway Maple	Acer platanoides	6		2	42.42271658	-71.16322557
294	Norway Maple	Acer platanoides	4		2	42.42269183	-71.16321753
421	Tree of Heaven	Ailanthus altissima	3		2	42.42310359	-71.16349187
422	Tree of Heaven	Ailanthus altissima	3		2	42.42306275	-71.16342824
423	Tree of Heaven	Ailanthus altissima	3		2	42.42302599	-71.16336462
424	Tree of Heaven	Ailanthus altissima	3		2	42.42298106	-71.16330653
425	Tree of Heaven	Ailanthus altissima	3		2	42.42294226	-71.16324567
426	Tree of Heaven	Ailanthus altissima	3		2	42.42290347	-71.16319034
427	Tree of Heaven	Ailanthus altissima	3		2	42.42285446	-71.16314331
428	Tree of Heaven	Ailanthus altissima	3		2	42.42281566	-71.16309629
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Total Tree Count 127

# Area 2 – Shrub List

Shrub Bed #	Common	Latin	Area	Sq Ft
453	Tree of Heaven	Ailanthus alitissima	2	647
454	Buckthorn	Rhamnus cathartica	2	49
455	Buckthorn	Rhamnus cathartica	2	37
456	Buckthorn	Rhamnus cathartica	2	44
457 Knottweed		Fallopia japonica	2	75
458	Poison Ive	Toxicodendron radicans	2	90
459	Buckthorn	Rhamnus cathartica	2	61
460	Buckthorn	Rhamnus cathartica	2	52
461	Boxelder	Acer negundo	2	31
462	Wild Rose	Rosa multiflora	2	90
		Total	Square Feet	1,176

## Area 3 – Tree List

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
295	Norway Maple	Acer platanoides	6		3	42.42270048	
296	Norway Maple	Acer platanoides	6		3	42.42268068	-71.16310577
297	Norway Maple	Acer platanoides	14		3	42.42264801	-71.16314332
298	Norway Maple	Acer platanoides	9		3	42.42259158	-71.1632144
299	Norway Maple	Acer platanoides	4		3	42.42255792	
300	Norway Maple	Acer platanoides	9		3	42.4225203	-71.16324927
301	Norway Maple	Acer platanoides	10		3	42.42251337	-71.16330828
302	Norway Maple	Acer platanoides	6		3	42.42252601	-71.16335231
303	Norway Maple	Acer platanoides	4		3	42.4224775	-71.16338718
304	Norway Maple	Acer platanoides	4		3	42.42244582	-71.16340461
305	Norway Maple	Acer platanoides	5		3	42.42241612	-71.16348776
306	Norway Maple	Acer platanoides	11		3	42.42237256	-71.16352263
307	Norway Maple	Acer platanoides	8		3	42.42237230	
308	Norway Maple	Acer platanoides	8		3	42.42237652	-71.16347100
309	, ,	•	7		3		
	Norway Maple	Acer platanoides				42.4224082	-71.16341534
310	Norway Maple	Acer platanoides	12		3	42.42242701	-71.16338986
311	Norway Maple	Acer platanoides	4	D 1	3	42.42243493	
312	Red Oak	Quercus rubra	50	Dead	3	42.42247377	-71.1633123
313	Norway Maple	Acer platanoides	5		3	42.42247179	
314	Norway Maple	Acer platanoides	10		3	42.4224312	
315	Norway Maple	Acer platanoides	6		3	42.42242724	-71.16327475
316	Norway Maple	Acer platanoides	10		3	42.42238269	-71.16329487
317	Norway Maple	Acer platanoides	11		3	42.42239655	-71.16331364
318	Norway Maple	Acer platanoides	8		3	42.42239556	-71.16334851
319	Norway Maple	Acer platanoides	5		3	42.42233716	
320	Norway Maple	Acer platanoides	10		3	42.42233023	-71.1634035
321	Norway Maple	Acer platanoides	8		3	42.42231835	
322	Norway Maple	Acer platanoides	10		3	42.42229657	
323	Norway Maple	Acer platanoides	18		3	42.4223629	-71.16334583
324	Norway Maple	Acer platanoides	10		3	42.4223431	-71.16332571
325	Black Locust	Robinia pseudoacacia	12		3	42.42240348	-71.16322915
326	Norway Maple	Acer platanoides	4		3	42.42243219	-71.16319965
327	Norway Maple	Acer platanoides	12		3	42.42245199	-71.16319428
328	Norway Maple	Acer platanoides	6		3	42.4224807	-71.1631688
329	Norway Maple	Acer platanoides	8		3	42.42251337	-71.16313394
330	Red Oak	Quercus rubra	10	Dead	3	42.42254109	-71.1630937
331	Norway Maple	Acer platanoides	5		3	42.42256782	-71.16314466
332	Black Locust	Robinia pseudoacacia	12		3	42.42260247	-71.16313528
333	Black Locust	Robinia pseudoacacia	16		3	42.42257871	-71.16308029
334	Black Locust	Robinia pseudoacacia	11		3		-71.16305347
335	Black Locust	Robinia pseudoacacia	12		3	42.42266286	
336	Norway Maple	Acer platanoides	12		3	42.42264108	
337	Norway Maple	Acer platanoides	12		3	42.42265324	-71.1629362
338	Norway Maple	Acer platanoides	10		3	42.42261275	-71.16294229
339	Norway Maple	Acer platanoides	10		3	42.42258414	
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Tree # Common Name								
Norway Maple   Acer platanoides   9   3   42.42254157   71.16292972					Notes 1			
342   Norway Maple   Acer platanoides   10   3   42.42253501   -71.16300938								
343   Black Locust   Robinia pseudoacacia   12   3   42.42249514   -71.1630459			•					
Norway Maple   Acer platanoides   7			•					
345   Norway Maple   Acer platanoides   8   Dual-stem   3   42.42247327   -71.16296364								
346         Norway Maple         Acer platanoides         7         3         42.42244146         -71.16306739           347         Norway Maple         Acer platanoides         8         3         42.42240696         -71.16300925           348         Norway Maple         Acer platanoides         7         3         42.42236507         -71.16300253           350         Norway Maple         Acer platanoides         10         3         42.4223315         -71.16302534           350         Norway Maple         Acer platanoides         7         3         42.42234455         -71.16302534           351         Norway Maple         Acer platanoides         4         3         42.42234455         -71.16314288           352         Norway Maple         Acer platanoides         4         3         42.42229383         -71.16314288           352         Norway Maple         Acer platanoides         7         3         42.42229383         -71.16314288           355         Norway Maple         Acer platanoides         7         3         42.42229855         -71.1631446           356         Norway Maple         Acer platanoides         8         3         42.4222231         -71.163127207           358								
347         Norway Maple         Acer platanoides         8         3         42.42240696         -71.16300255           348         Norway Maple         Acer platanoides         7         3         42.42239607         -71.16300234           350         Norway Maple         Acer platanoides         10         3         42.42233115         -71.16309573           351         Norway Maple         Acer platanoides         7         3         42.42234185         -71.16309573           352         Norway Maple         Acer platanoides         4         3         42.42234485         -71.1630003           353         Norway Maple         Acer platanoides         4         3         42.42223836         -71.16310023           354         Norway Maple         Acer platanoides         7         3         42.42229383         -71.16318444           355         Black Locust         Robinia pseudoacacia         6         3         42.42229383         -71.16318446           355         Norway Maple         Acer platanoides         8         3         42.42222311         -71.1633756           357         Norway Maple         Acer platanoides         8         3         42.42222047         -71.1631757           359			•		Dual-stem			
348         Norway Maple         Acer platanoides         7         3         42.42239607         -71.16309911           349         Black Locust         Robinia pseudoacacia         16         3         42.4223519         -71.16309573           350         Norway Maple         Acer platanoides         10         3         42.42233145         -71.16309573           351         Norway Maple         Acer platanoides         7         3         42.4223445         -71.16309573           352         Norway Maple         Acer platanoides         4         3         42.42232418         -71.16320203           353         Norway Maple         Acer platanoides         4         3         42.4223933         -71.1632076           354         Norway Maple         Acer platanoides         7         3         42.4222933         -71.16314466           355         Black Locust         Robinia pseudoacacia         6         3         42.42227479         -71.1633056           357         Norway Maple         Acer platanoides         8         3         42.4222331         -71.1633795           358         Norway Maple         Acer platanoides         5         3         42.42223041         -71.1631793           360		, , , , , , , , , , , , , , , , , , , ,	<u>'</u>					
Black Locust   Robinia pseudoacacia   16   3   42.42236539   -71.16302534			•					
350   Norway Maple   Acer platanoides   10   3   42.42233115   -71.16309573   351   Norway Maple   Acer platanoides   7   3   42.42234455   -71.16314288   352   Norway Maple   Acer platanoides   4   3   42.42230636   -71.16320023   353   Norway Maple   Acer platanoides   4   3   42.42230636   -71.16321767   354   Norway Maple   Acer platanoides   7   3   42.42229383   -71.16318444   355   Black Locust   Robinia pseudoacacia   6   3   42.42229385   -71.16318444   355   Black Locust   Robinia pseudoacacia   6   3   42.42227479   -71.16314666   356   Norway Maple   Acer platanoides   8   3   42.4222331   -71.16327207   358   Norway Maple   Acer platanoides   5   3   42.4222331   -71.16327207   359   Black Locust   Robinia pseudoacacia   6   3   42.4222431   -71.16317953   360   Norway Maple   Acer platanoides   8   3   42.42221044   -71.1631653365   360   Norway Maple   Acer platanoides   8   3   42.42221044   -71.16316503   362   Norway Maple   Acer platanoides   5   3   42.42221044   -71.16315033   363   Norway Maple   Acer platanoides   5   3   42.42224014   -71.16315033   363   Norway Maple   Acer platanoides   4   3   42.42228451   -71.16315033   363   Norway Maple   Acer platanoides   4   3   42.42228451   -71.16315033   365   Norway Maple   Acer platanoides   4   3   42.42218668   -71.16300417   366   Norway Maple   Acer platanoides   4   3   42.42215899   -71.16300452   366   Norway Maple   Acer platanoides   5   3   42.42223351   -71.16300417   371   Norway Maple   Acer platanoides   5   3   42.4222335   -71.16300417   371   Norway Maple   Acer platanoides   7   3   42.4223351   -71.16289266   372   Norway Maple   Acer platanoides   7   3   42.4224379   -71.16289266   372   Norway Maple   Acer platanoides   6   3   42.4223356   -71.16289266   372   Norway Maple   Acer platanoides   7   3   42.4224379   -71.1628054   371   Norway Maple   Acer platanoides   7   3   42.4224379   -71.16280637   375   Red Oak   Quercus rubra   24   Dead   3   42.4223309   -71.16281766   375   Norway Maple   Acer platanoides		, , , , , , , , , , , , , , , , , , ,	•					
351   Norway Maple   Acer platanoides   7   3   42.42234455   -71.16314288   352   Norway Maple   Acer platanoides   4   3   42.42230636   -71.16320023   353   Norway Maple   Acer platanoides   7   3   42.42233033   -71.1631767   354   Norway Maple   Acer platanoides   7   3   42.42229383   -71.16318444   355   Black Locust   Robinia pseudoacacia   6   3   42.42229355   -71.16314466   356   Norway Maple   Acer platanoides   14   3   42.42227479   -71.1633056   357   Norway Maple   Acer platanoides   8   3   42.42224311   -71.16327207   358   Norway Maple   Acer platanoides   5   3   42.42223311   -71.16327372   359   Black Locust   Robinia pseudoacacia   6   3   42.42224707   -71.16317953   360   Norway Maple   Acer platanoides   6   3   42.42224707   -71.16316612   361   Norway Maple   Acer platanoides   8   3   42.42221044   -71.16316612   361   Norway Maple   Acer platanoides   8   3   42.4222404   -71.1631393   362   Norway Maple   Acer platanoides   5   3   42.42224014   -71.1631393   363   Norway Maple   Acer platanoides   4   3   42.42224014   -71.16310335   363   Norway Maple   Acer platanoides   4   3   42.42224015   -71.16310335   365   Norway Maple   Acer platanoides   4   3   42.4222405   -71.1630335   365   Norway Maple   Acer platanoides   8   3   42.42219668   -71.1630385   366   Norway Maple   Acer platanoides   4   3   42.42219664   -71.16300385   366   Norway Maple   Acer platanoides   5   3   42.42223711   -71.16300385   368   Norway Maple   Acer platanoides   5   3   42.42233711   -71.163003417   369   Norway Maple   Acer platanoides   7   3   42.4223371   -71.16299448   370   Norway Maple   Acer platanoides   8   3   42.42233711   -71.1629065   370   Norway Maple   Acer platanoides   6   3   42.4223371   -71.16299458   371   Norway Maple   Acer platanoides   6   3   42.4223371   -71.16289256   371   Norway Maple   Acer platanoides   7   3   42.4223371   -71.16289256   371   Norway Maple   Acer platanoides   7   3   42.4223371   -71.16289256   371   Norway Maple   Acer platanoides   7   3								
352   Norway Maple   Acer platanoides   4   3   42.4223418   -71.16320023   353   Norway Maple   Acer platanoides   4   3   42.42230636   -71.16321767   354   Norway Maple   Acer platanoides   7   3   42.42229835   -71.16318444   355   Black Locust   Robinia pseudoacacia   6   3   42.42227479   -71.1633056   356   Norway Maple   Acer platanoides   14   3   42.42227479   -71.1633056   357   Norway Maple   Acer platanoides   8   3   42.42224311   -71.16327207   338   Norway Maple   Acer platanoides   5   3   42.4222331   -71.16327207   338   Norway Maple   Acer platanoides   6   3   42.422220477   -71.16317953   360   Norway Maple   Acer platanoides   6   3   42.42221044   -71.16316512   361   Norway Maple   Acer platanoides   8   3   42.42221044   -71.16316512   361   Norway Maple   Acer platanoides   5   3   42.42224014   -71.1631393   362   Norway Maple   Acer platanoides   5   3   42.42224014   -71.16315003   363   Norway Maple   Acer platanoides   4   3   42.4222464   -71.1631737   364   Black Locust   Robinia pseudoacacia   12   3   42.42228451   -71.16309236   365   Norway Maple   Acer platanoides   8   3   42.4222865   -71.16309236   365   Norway Maple   Acer platanoides   8   3   42.42218668   -71.16309385   366   Norway Maple   Acer platanoides   5   3   42.42221711   -71.16300385   368   Norway Maple   Acer platanoides   5   3   42.4222569   -71.16300417   369   Norway Maple   Acer platanoides   5   3   42.4223935   -71.16299645   370   Norway Maple   Acer platanoides   6   3   42.4223935   -71.16289176   371   Norway Maple   Acer platanoides   6   3   42.4223935   -71.16289176   371   Norway Maple   Acer platanoides   6   3   42.4223477   -71.16289176   375   Red Oak   Quercus rubra   24   Dead   3   42.4223477   -71.16289176   375   Red Oak   Quercus rubra   24   Dead   3   42.4223696   -71.16289176   376   Norway Maple   Acer platanoides   7   3   42.4223696   -71.16289176   378   Norway Maple   Acer platanoides   7   3   42.4223696   -71.16289176   378   Norway Maple   Acer platanoides   7   3			·					
353   Norway Maple   Acer platanoides   4   3   42.42230636   -71.16321767   34   Norway Maple   Acer platanoides   7   3   42.42229383   -71.16318444   355   Black Locust   Robinia pseudoacacia   6   3   42.42229385   -71.16314466   356   Norway Maple   Acer platanoides   14   3   42.42227479   -71.1631056   357   Norway Maple   Acer platanoides   8   3   42.42224311   -71.16327207   358   Norway Maple   Acer platanoides   5   3   42.4222331   -71.16327372   359   Black Locust   Robinia pseudoacacia   6   3   42.4222331   -71.16317953   360   Norway Maple   Acer platanoides   8   3   42.42224070   -71.16317953   361   Norway Maple   Acer platanoides   8   3   42.42224070   -71.16317953   362   Norway Maple   Acer platanoides   8   3   42.42224014   -71.16316612   362   Norway Maple   Acer platanoides   5   3   42.42224014   -71.1631503   363   Norway Maple   Acer platanoides   4   3   42.42228451   -71.1631737   364   Black Locust   Robinia pseudoacacia   12   3   42.42218668   -71.16309236   365   Norway Maple   Acer platanoides   8   3   42.42219668   -71.16309236   366   Norway Maple   Acer platanoides   4   3   42.42219668   -71.16300385   367   Norway Maple   Acer platanoides   5   3   42.42223711   -71.163004542   368   Norway Maple   Acer platanoides   5   3   42.42223711   -71.163004542   368   Norway Maple   Acer platanoides   5   3   42.42232935   -71.16290486   370   Norway Maple   Acer platanoides   6   3   42.42232935   -71.16290865   370   Norway Maple   Acer platanoides   8   3   42.42232935   -71.16290865   372   Norway Maple   Acer platanoides   6   3   42.42248379   -71.16280547   375   Red Oak   Quercus rubra   24   Dead   3   42.42248379   -71.16280547   375   Red Oak   Quercus rubra   24   Dead   3   42.42248379   -71.16280547   377   Norway Maple   Acer platanoides   7   3   42.42248379   -71.16280547   378   Norway Maple   Acer platanoides   7   3   42.42225808   -71.16280547   379   Black Locust   Robinia pseudoacacia   12   3   42.42225808   -71.16280547   379   Black Locust   Robini			•					
354         Norway Maple         Acer platanoides         7         3         42.42229383         -71.16318444           355         Black Locust         Robinia pseudoacacia         6         3         42.42229855         -71.16314466           356         Norway Maple         Acer platanoides         14         3         42.42227479         -71.1633056           357         Norway Maple         Acer platanoides         5         3         42.4222331         -71.16327207           358         Norway Maple         Acer platanoides         5         3         42.422224707         -71.16317953           360         Norway Maple         Acer platanoides         6         3         42.42224044         -71.16317953           361         Norway Maple         Acer platanoides         8         3         42.42224014         -71.1631933           362         Norway Maple         Acer platanoides         5         3         42.42224014         -71.1631933           363         Norway Maple         Acer platanoides         4         3         42.42224014         -71.1631933           364         Black Locust         Robinia pseudoacacia         12         3         42.422218668         -71.1631933           365 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
355         Black Locust         Robinia pseudoacacia         6         3         42.42229855         -71.16314466           356         Norway Maple         Acer platanoides         14         3         42.42227479         -71.1633056           357         Norway Maple         Acer platanoides         8         3         42.42224311         -71.16327207           358         Norway Maple         Acer platanoides         5         3         42.4222331         -71.1632372           359         Black Locust         Robinia pseudoacacia         6         3         42.42224707         -71.16317953           360         Norway Maple         Acer platanoides         6         3         42.42221044         -71.16317937           361         Norway Maple         Acer platanoides         8         3         42.4221946         -71.1631933           362         Norway Maple         Acer platanoides         4         3         42.4221946         -71.1631737           364         Black Locust         Robinia pseudoacacia         12         3         42.4221868         -71.1631737           365         Norway Maple         Acer platanoides         8         3         42.42216589         -71.163094364           366 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
356         Norway Maple         Acer platanoides         14         3         42.42227479         -71.1633056           357         Norway Maple         Acer platanoides         8         3         42.42224311         -71.16327207           358         Norway Maple         Acer platanoides         5         3         42.4222331         -71.1632727           359         Black Locust         Robinia pseudoacacia         6         3         42.42224707         -71.16317953           360         Norway Maple         Acer platanoides         8         3         42.42221044         -71.16316612           361         Norway Maple         Acer platanoides         8         3         42.42224044         -71.16315033           362         Norway Maple         Acer platanoides         5         3         42.4222466         -71.1631503           363         Norway Maple         Acer platanoides         4         3         42.42228651         -71.1631737           364         Black Locust         Robinia pseudoacacia         12         3         42.42218668         -71.16309236           365         Norway Maple         Acer platanoides         4         3         42.42219664         -71.16309345           366			•					
357         Norway Maple         Acer platanoides         8         3         42.4222331         -71.16327207           358         Norway Maple         Acer platanoides         5         3         42.4222331         -71.1632720           359         Black Locust         Robinia pseudoacacia         6         3         42.42221047         -71.16317953           360         Norway Maple         Acer platanoides         6         3         42.42221044         -71.16315612           361         Norway Maple         Acer platanoides         8         3         42.4221946         -71.16315003           362         Norway Maple         Acer platanoides         5         3         42.42228451         -71.16315003           363         Norway Maple         Acer platanoides         4         3         42.42228451         -71.16311737           364         Black Locust         Robinia pseudoacacia         12         3         42.42216688         -71.163009236           365         Norway Maple         Acer platanoides         8         3         42.42216589         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.4222561         -71.16300385           368		Black Locust	Robinia pseudoacacia	6			42.42229855	-71.16314466
358         Norway Maple         Acer platanoides         5         3         42.4222331         -71.1632372           359         Black Locust         Robinia pseudoacacia         6         3         42.42224707         -71.16317953           360         Norway Maple         Acer platanoides         6         3         42.4221044         -71.16316612           361         Norway Maple         Acer platanoides         8         3         42.4221946         -71.16315903           362         Norway Maple         Acer platanoides         4         3         42.42224014         -71.16315903           363         Norway Maple         Acer platanoides         4         3         42.42228451         -71.16309236           365         Norway Maple         Acer platanoides         8         3         42.42215688         -71.16309236           366         Norway Maple         Acer platanoides         4         3         42.42215689         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.4222561         -71.16300385           367         Norway Maple         Acer platanoides         7         3         42.42237171         -71.16200417           369		Norway Maple	Acer platanoides				42.42227479	
359         Black Locust         Robinia pseudoacacia         6         3         42.42224707         -71.16317953           360         Norway Maple         Acer platanoides         6         3         42.42221044         -71.16316612           361         Norway Maple         Acer platanoides         8         3         42.4221946         -71.1631393           362         Norway Maple         Acer platanoides         5         3         42.42224014         -71.16315003           363         Norway Maple         Acer platanoides         4         3         42.42228668         -71.16311737           364         Black Locust         Robinia pseudoacacia         12         3         42.42218668         -71.16309236           365         Norway Maple         Acer platanoides         8         3         42.42216589         -71.16309236           366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16309336           367         Norway Maple         Acer platanoides         5         3         42.42216589         -71.16200335           367         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16299448           368 <td>357</td> <td>Norway Maple</td> <td>Acer platanoides</td> <td>8</td> <td></td> <td>3</td> <td>42.42224311</td> <td>-71.16327207</td>	357	Norway Maple	Acer platanoides	8		3	42.42224311	-71.16327207
360         Norway Maple         Acer platanoides         6         3         42.42221044         -71.16316612           361         Norway Maple         Acer platanoides         8         3         42.4221946         -71.1631393           362         Norway Maple         Acer platanoides         5         3         42.42224014         -71.16315003           363         Norway Maple         Acer platanoides         4         3         42.42228451         -71.16311737           364         Black Locust         Robinia pseudoacacia         12         3         42.42218668         -71.16300236           365         Norway Maple         Acer platanoides         8         3         42.42219669         -71.163004542           366         Norway Maple         Acer platanoides         4         3         42.42219669         -71.163004542           367         Norway Maple         Acer platanoides         5         3         42.42225661         -71.162904865           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16299488           369         Norway Maple         Acer platanoides         8         3         42.422231711         -71.1629965           370 <td></td> <td>Norway Maple</td> <td>Acer platanoides</td> <td></td> <td></td> <td>3</td> <td></td> <td></td>		Norway Maple	Acer platanoides			3		
361         Norway Maple         Acer platanoides         8         3         42.4221946         -71.1631393           362         Norway Maple         Acer platanoides         5         3         42.42224014         -71.16315003           363         Norway Maple         Acer platanoides         4         3         42.42228451         -71.16311737           364         Black Locust         Robinia pseudoacacia         12         3         42.42218668         -71.16309236           365         Norway Maple         Acer platanoides         8         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.42219064         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16299448           368         Norway Maple         Acer platanoides         8         3         42.42233935         -71.16299448           368         Norway Maple         Acer platanoides         8         3         42.422332935         -71.1629065           370	359	Black Locust	•	6		3	42.42224707	-71.16317953
362         Norway Maple         Acer platanoides         5         3         42.42224014         -71.16315003           363         Norway Maple         Acer platanoides         4         3         42.42228451         -71.16311737           364         Black Locust         Robinia pseudoacacia         12         3         42.42218668         -71.16309236           365         Norway Maple         Acer platanoides         8         3         42.42216589         -71.163004542           366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.4222561         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16299448           369         Norway Maple         Acer platanoides         8         3         42.42231711         -71.16299448           369         Norway Maple         Acer platanoides         7         3         42.4223171         -71.16290865           370         Norway Maple         Acer platanoides         7         3         42.42249406         -71.1628917           371	360	Norway Maple	Acer platanoides	6		3	42.42221044	-71.16316612
363         Norway Maple         Acer platanoides         4         3         42.42228451         -71.16311737           364         Black Locust         Robinia pseudoacacia         12         3         42.42218668         -71.16309236           365         Norway Maple         Acer platanoides         8         3         42.422196589         -71.16304542           366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.42231711         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16299448           369         Norway Maple         Acer platanoides         8         3         42.42231711         -71.16290865           370         Norway Maple         Acer platanoides         7         3         42.42232935         -71.16290865           370         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289176           371         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16278527           375 <td>361</td> <td>Norway Maple</td> <td>Acer platanoides</td> <td>8</td> <td></td> <td>3</td> <td>42.4221946</td> <td>-71.1631393</td>	361	Norway Maple	Acer platanoides	8		3	42.4221946	-71.1631393
364         Black Locust         Robinia pseudoacacia         12         3 42.42218668         -71.16309236           365         Norway Maple         Acer platanoides         8         3 42.42216589         -71.16304542           366         Norway Maple         Acer platanoides         4         3 42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3 42.4222561         -71.16299448           368         Norway Maple         Acer platanoides         7         3 42.42231711         -71.16300417           369         Norway Maple         Acer platanoides         8         3 42.4223935         -71.16290865           370         Norway Maple         Acer platanoides         7         3 42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3 42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3 42.42253861         -71.16289256           375         Red Oak         Quercus rubra         24         Dead         3 42.42248379         -71.16278527           376         Norway Maple         Acer platanoides         8         3 42.4223694         -71.1628044	362	Norway Maple	Acer platanoides				42.42224014	-71.16315003
365         Norway Maple         Acer platanoides         8         3         42.42216589         -71.16304542           366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.42231711         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16299465           370         Norway Maple         Acer platanoides         8         3         42.42232935         -71.16290865           370         Norway Maple         Acer platanoides         6         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16289156           372         Norway Maple         Acer platanoides         6         3         42.42254257         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42248379         -71.162796           375	363	Norway Maple	Acer platanoides	4			42.42228451	-71.16311737
366         Norway Maple         Acer platanoides         4         3         42.42219064         -71.16300385           367         Norway Maple         Acer platanoides         5         3         42.4222561         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16300417           369         Norway Maple         Acer platanoides         8         3         42.42232935         -71.16290865           370         Norway Maple         Acer platanoides         6         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.16289256           374         Black Locust         Robinia pseudoacacia         12         3         42.42253861         -71.1628644           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.4223694         -71.1628644 <td< td=""><td>364</td><td>Black Locust</td><td>Robinia pseudoacacia</td><td>12</td><td></td><td>3</td><td>42.42218668</td><td>-71.16309236</td></td<>	364	Black Locust	Robinia pseudoacacia	12		3	42.42218668	-71.16309236
367         Norway Maple         Acer platanoides         5         3         42.4222561         -71.16299448           368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16300417           369         Norway Maple         Acer platanoides         8         3         42.42232935         -71.16290865           370         Norway Maple         Acer platanoides         6         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.1627956           376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16286037           <	365	Norway Maple	Acer platanoides				42.42216589	-71.16304542
368         Norway Maple         Acer platanoides         7         3         42.42231711         -71.16300417           369         Norway Maple         Acer platanoides         8         3         42.42232935         -71.16290865           370         Norway Maple         Acer platanoides         7         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.1627956           376         Norway Maple         Acer platanoides         8         3         42.42248379         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42218272         -71.1629435	366	Norway Maple	Acer platanoides				42.42219064	-71.16300385
369         Norway Maple         Acer platanoides         8         3         42.42232935         -71.16290865           370         Norway Maple         Acer platanoides         7         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42248379         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16281746           378         Norway Maple         Acer platanoides         12         3         42.42225808         -71.16286037           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           <	367	Norway Maple	Acer platanoides	5		3	42.4222561	-71.16299448
370         Norway Maple         Acer platanoides         7         3         42.42241278         -71.16289117           371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42248379         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16281746           378         Norway Maple         Acer platanoides         12         3         42.4223694         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629663           381         Norway Maple         Acer platanoides         8         3         42.42218272         -71.16299714	368	Norway Maple	Acer platanoides	7		3	42.42231711	-71.16300417
371         Norway Maple         Acer platanoides         6         3         42.42249406         -71.16289256           372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.16296037           380         Norway Maple         Acer platanoides         7         3         42.42225808         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16299714	369	Norway Maple		8		3	42.42232935	-71.16290865
372         Norway Maple         Acer platanoides         6         3         42.42253861         -71.1628644           374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16283694           378         Norway Maple         Acer platanoides         12         3         42.42229569         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892	370	Norway Maple	Acer platanoides	7			42.42241278	-71.16289117
374         Black Locust         Robinia pseudoacacia         12         3         42.42254257         -71.16278527           375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16283694           378         Norway Maple         Acer platanoides         12         3         42.42229569         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218	371	Norway Maple	Acer platanoides	6		3	42.42249406	-71.16289256
375         Red Oak         Quercus rubra         24         Dead         3         42.42248379         -71.162796           376         Norway Maple         Acer platanoides         8         3         42.42244221         -71.16281746           377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16283694           378         Norway Maple         Acer platanoides         12         3         42.42225809         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218	372	Norway Maple	Acer platanoides	6		3	42.42253861	
376       Norway Maple       Acer platanoides       8       3       42.42244221       -71.16281746         377       Norway Maple       Acer platanoides       7       3       42.4223694       -71.16283694         378       Norway Maple       Acer platanoides       12       3       42.42229569       -71.16286037         379       Black Locust       Robinia pseudoacacia       12       3       42.42225808       -71.1629167         380       Norway Maple       Acer platanoides       7       3       42.42218272       -71.1629435         381       Norway Maple       Acer platanoides       8       3       42.4221352       -71.16299714         381       Black Locust       Robinia pseudoacacia       12       3       42.42224026       -71.16283892         382       Norway Maple       Acer platanoides       8       3       42.42228603       -71.16279218         383       Norway Maple       Acer platanoides       9       3       42.42233058       -71.16276669	374	Black Locust	Robinia pseudoacacia	12		3	42.42254257	-71.16278527
377         Norway Maple         Acer platanoides         7         3         42.4223694         -71.16283694           378         Norway Maple         Acer platanoides         12         3         42.42229569         -71.16286037           379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669	375	Red Oak	Quercus rubra	24	Dead	3	42.42248379	-71.162796
378       Norway Maple       Acer platanoides       12       3       42.42229569       -71.16286037         379       Black Locust       Robinia pseudoacacia       12       3       42.42225808       -71.1629167         380       Norway Maple       Acer platanoides       7       3       42.42218272       -71.1629435         381       Norway Maple       Acer platanoides       8       3       42.4221352       -71.16299714         381       Black Locust       Robinia pseudoacacia       12       3       42.42224026       -71.16283892         382       Norway Maple       Acer platanoides       8       3       42.42228603       -71.16279218         383       Norway Maple       Acer platanoides       9       3       42.42233058       -71.16276669	376	Norway Maple	Acer platanoides	8		3	42.42244221	-71.16281746
379         Black Locust         Robinia pseudoacacia         12         3         42.42225808         -71.1629167           380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669	377	Norway Maple	Acer platanoides	7		3	42.4223694	-71.16283694
380         Norway Maple         Acer platanoides         7         3         42.42218272         -71.1629435           381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669	378	Norway Maple	Acer platanoides			3		-71.16286037
381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669	379	Black Locust	Robinia pseudoacacia	12		3	42.42225808	-71.1629167
381         Norway Maple         Acer platanoides         8         3         42.4221352         -71.16299714           381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669		Norway Maple	Acer platanoides					
381         Black Locust         Robinia pseudoacacia         12         3         42.42224026         -71.16283892           382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669	381	Norway Maple	·	8		3		
382         Norway Maple         Acer platanoides         8         3         42.42228603         -71.16279218           383         Norway Maple         Acer platanoides         9         3         42.42233058         -71.16276669			•	12				
383 Norway Maple Acer platanoides 9 3 42.42233058 -71.16276669				8				
			•	10				

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
385	Norway Maple	Acer platanoides	7		3	42.42238404	-71.16271573
386	Norway Maple	Acer platanoides	11		3	42.42242067	-71.16269428
387	Black Locust	Robinia pseudoacacia	12		3	42.42243453	-71.1627506
389	Norway Maple	Acer platanoides	6		3	42.42248402	-71.16271471
401	Norway Maple	Acer platanoides	8		3	42.42234246	-71.16267818
402	Norway Maple	Acer platanoides	10		3	42.4222989	-71.16270903
403	Black Locust	Robinia pseudoacacia	12		3	42.42224224	-71.16271553
404	Black Locust	Robinia pseudoacacia	10		3	42.4221967	-71.16279868
405	Norway Maple	Acer platanoides	10		3	42.42216193	-71.16287376
406	Norway Maple	Acer platanoides	12		3	42.42210649	-71.16291802
407	Norway Maple	Acer platanoides	4		3	42.42210451	-71.16285901
408	Norway Maple	Acer platanoides	12		3	42.42212035	-71.16278659
409	Tree of Heaven	Ailanthus altissima	4		3	42.42209681	-71.16269513
410	Tree of Heaven	Ailanthus altissima	6		3	42.42218482	-71.16267798
411	Tree of Heaven	Ailanthus altissima	5		3	42.42224979	-71.16264207
429	Tree of Heaven	Ailanthus altissima	3		3	42.42279728	-71.163005
430	Tree of Heaven	Ailanthus altissima	3		3	42.42276461	-71.16292201
431	Tree of Heaven	Ailanthus altissima	3		3	42.42275848	-71.16282519

Total Tree Count 108

# Area 3 – Shrub List

Shrub Bed #	Common	Latin	Area	Sq Ft
463 Tree of Heave		Ailanthus alitissima	3	199
464	Poison Ive	Toxicodendron radicans	3	68
465 Wild Rose		Rosa multiflora	3	60
466	Buckthorn	Rhamnus cathartica	3	145
i i	. Pa	Total Sqaure Fee	et	473

## Area 4 – Tree List

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
	Norway Maple	Acer platanoides	10		4	42.42265215	-71.16273769
	Norway Maple	Acer platanoides	4		4	42.42246126	
390	Norway Maple	Acer platanoides	12		4	42.42252537	-71.16268335
391	Black Locust	Robinia pseudoacacia	12		4	42.42253645	-71.16259625
392	Black Locust	Robinia pseudoacacia	12		4	42.42259233	
393	Norway Maple	Acer platanoides	8		4	42.42260773	-71.1625882
394	Norway Maple	Acer platanoides	7		4	42.42269116	-71.16257072
395	Norway Maple	Acer platanoides	8		4	42.42268649	-71.16246898
396	Norway Maple	Acer platanoides	7		4	42.42264778	-71.16251649
397	Norway Maple	Acer platanoides	12		4	42.42257407	-71.16253993
	Norway Maple	Acer platanoides	12		4	42.42253095	-71.16256965
399	Norway Maple	Acer platanoides	6		4	42.42247749	-71.16257233
400	Norway Maple	Acer platanoides	8		4	42.42240423	-71.16260452
412	Norway Maple	Acer platanoides	4		4	42.42229929	-71.16262866
413	Norway Maple	Acer platanoides	4		4	42.42234285	-71.16262866
	Norway Maple	Acer platanoides	7		4	42.42241579	-71.16246001
416	Norway Maple		10		4	42.42241379	-71.16246001
	, ,	Acer platanoides	_				
417 418	Black Locust Norway Maple	Robinia pseudoacacia Acer platanoides	12 8		4	42.42251863 42.4225644	-71.16251847 -71.16247173
	·	•					
419	Norway Maple	Acer platanoides	9		4	42.42260895	-71.16244625
420	Norway Maple	Acer platanoides	10		4	42.42266292	-71.16239658
432	Tree of Heaven	Ailanthus altissima	3		4	42.42276461	-71.16270624
	Norway Maple	Acer platanoides	7		4	42.4227546	-71.16237716
444	Red Oak	Quercus rubra	14	Dead	4	42.4228565	-71.16250983
445	Red Oak	Quercus rubra	16	Dead	4	42.4229198	-71.16244344
446	Boxelder	Acer negundo	6		4	42.42300773	-71.16240964
447	Boxelder	Acer negundo	6		4	42.42295866	-71.16228072
448	Buckthorn	Acer negundo	6		4	42.4229081	-71.16215986
449	Tree of Heaven	Ailanthus altissima	3		4	42.42288917	-71.1620202
500	Tree of Heaven	Ailanthus altissima	3		4	42.42285037	-71.16189295
501	Boxelder	Acer negundo	6		4	42.42283078	-71.16182346
502	Norway Maple	Acer platanoides	12		4	42.42289502	-71.1622652
503	Norway Maple	Acer platanoides	10		4	42.42282592	-71.16222788
504	Black Locust	Robinia pseudoacacia	12		4	42.42281166	-71.16229442
505	Norway Maple	Acer platanoides	10		4	42.42285453	-71.1622713
506	Norway Maple	Acer platanoides	9		4	42.42278335	-71.16225872
507	Norway Maple	Acer platanoides	6		4	42.42278039	-71.1621934
508	Norway Maple	Acer platanoides	6		4	42.42273584	-71.16222157
509	Norway Maple	Acer platanoides	8	Dual-stem	4	42.42271505	-71.16229264
510	Norway Maple	Acer platanoides	8		4	42.4226826	-71.16228407
511	Norway Maple	Acer platanoides	7		4	42.42265456	-71.16222017
512	Norway Maple	Acer platanoides	4		4	42.42262122	-71.16228139
513	Norway Maple	Acer platanoides	8		4	42.42262083	-71.16235773
514	Norway Maple	Acer platanoides	10		4	42.42257727	-71.16238858
515	Black Locust	Robinia pseudoacacia	12		4	42.42252061	-71.16239509

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
516	Norway Maple	Acer platanoides	9		4	42.42248014	-71.16242515
517	Norway Maple	Acer platanoides	8	Dual-stem	4	42.42241185	-71.16245907
518	Norway Maple	Acer platanoides	8		4	42.42234554	-71.16249797
519	Black Locust	Robinia pseudoacacia	16		4	42.42230396	-71.16252077
520	Norway Maple	Acer platanoides	7		4	42.42225569	-71.1624996
521	Norway Maple	Acer platanoides	5		4	42.42225779	-71.16242555
522	Norway Maple	Acer platanoides	7		4	42.42235136	-71.16238659
523	Norway Maple	Acer platanoides	6		4	42.42243264	-71.16238799
524	Norway Maple	Acer platanoides	6		4	42.42247719	-71.16235982
525	Tree of Heaven	Ailanthus altissima	5		4	42.42252817	-71.16232162
526	Norway Maple	Acer platanoides	4		4	42.42257767	-71.16230821
527	Red Oak	Quercus rubra	24	Dead	4	42.42272557	-71.16212501
528	Norway Maple	Acer platanoides	8		4	42.42268399	-71.16214646
529	Norway Maple	Acer platanoides	6		4	42.4227258	-71.16204371
530	Black Locust	Robinia pseudoacacia	12		4	42.42267631	-71.16207961
531	Norway Maple	Acer platanoides	7		4	42.42261118	-71.16216594
532	Norway Maple	Acer platanoides	10		4	42.42261295	-71.16207827
533	Black Locust	Robinia pseudoacacia	12		4	42.42248115	-71.1622807
534	Red Oak	Quercus rubra	24	Dead	4	42.42242237	-71.16229143
535	Norway Maple	Acer platanoides	8		4	42.42238079	-71.16231288
536	Norway Maple	Acer platanoides	7		4	42.42230798	-71.16233236
537	Norway Maple	Acer platanoides	12		4	42.42223427	-71.1623558
538	Norway Maple	Acer platanoides	8		4	42.4222246	-71.1622876
539	Norway Maple	Acer platanoides	9		4	42.42226915	-71.16226212
540	Norway Maple	Acer platanoides	10		4	42.42230974	-71.16224469
541	Norway Maple	Acer platanoides	11		4	42.42235924	-71.1621897
542	Black Locust	Robinia pseudoacacia	12		4	42.4223731	-71.16224603
543	Norway Maple	Acer platanoides	4		4	42.42239983	-71.1621602
544	Norway Maple	Acer platanoides	6		4	42.4224226	-71.16221013
545	Norway Maple	Acer platanoides	12		4	42.42246395	-71.16217877
546	Black Locust	Robinia pseudoacacia	12		4	42.42247502	-71.16209168
547	Norway Maple	Acer platanoides	7		4	42.42262582	-71.16204474
548	Norway Maple	Acer platanoides	11		4	42.42266245	-71.16202328
549	Norway Maple	Acer platanoides	4		4	42.42270304	-71.16199378
550	Norway Maple	Acer platanoides	6		4	42.42271927	-71.16190134
551	Norway Maple	Acer platanoides	7		4	42.42242716	-71.16170482
552	Norway Maple	Acer platanoides	8		4	42.42264601	-71.16193353
553	Norway Maple	Acer platanoides	9		4	42.4225847	-71.1619188
554	Norway Maple	Acer platanoides	10		4	42.42257814	-71.16199846
555	Norway Maple	Acer platanoides	8	Dual-stem	4	42.4225164	-71.16195272
556	Norway Maple	Acer platanoides	7		4	42.42252035	-71.16195367
557	Norway Maple	Acer platanoides	12		4	42.42246952	-71.16206508
558	Norway Maple	Acer platanoides	8		4	42.42245009	-71.16199163
559	Black Locust	Robinia pseudoacacia	16		4	42.42240851	-71.16201443
560	Norway Maple	Acer platanoides	6		4	42.42241607	-71.16206776

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
561		Acer platanoides	8		4	42.42234281	-71.16209995
	Norway Maple	Acer platanoides	8		4	42.42228103	-71.16217361
		Acer platanoides	4		4	42.42228143	-71.16209727
564	Norway Maple	Acer platanoides	10		4	42.42222702	-71.16214072
565	Norway Maple	Acer platanoides	8		4	42.42217514	-71.16218101
566	Norway Maple	Acer platanoides	10		4	42.42208203	-71.16209593
567	Norway Maple	Acer platanoides	4		4	42.42219212	-71.16208691
568	Norway Maple	Acer platanoides	12		4	42.42218199	-71.16201057
569	Black Locust	Robinia pseudoacacia	12		4	42.42216184	-71.16194308
570	Norway Maple	Acer platanoides	8		4	42.4225205	-71.16192643
571	Norway Maple	Acer platanoides	8		4	42.4222879	-71.16199217
572	Norway Maple	Acer platanoides	9		4	42.4222966	-71.16190095
573	Norway Maple	Acer platanoides	7		4	42.42236024	-71.16199325
574	Norway Maple	Acer platanoides	8		4	42.42237248	-71.16189774
575	Norway Maple	Acer platanoides	7		4	42.42245591	-71.16188025
576	Norway Maple	Acer platanoides	6		4	42.42253719	-71.16188164

Total Tree Count 106

## Area 4 – Shrub List

Shrub Bed #	Common	Latin	Area	Sq Ft
467	Tree of Heaven	Ailanthus alitissima	4	210
468	Boxelder	Acer negundo	4	387
,		Total Square	Feet	596

## Area 5 – Tree List

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
577	Black Locust	Robinia pseudoacacia	12		5	42.4225857	-71.16177436
578	Red Oak	Quercus rubra	24	Dead	5	42.42252692	-71.16178508
579	Norway Maple	Acer platanoides	8		5	42.42248534	
580	Norway Maple	Acer platanoides	7		5	42.42241253	
581	Norway Maple	Acer platanoides	12		5	42.42233882	-71.16184946
582	Norway Maple	Acer platanoides	10		5	42.42226492	-71.16184329
583	Black Locust	Robinia pseudoacacia	12		5	42.42220826	-71.16184979
584	Tree of Heaven	Ailanthus altissima	5		5	42.42221581	-71.16177633
585	Norway Maple	Acer platanoides	4		5	42.42226531	-71.16176292
586	Norway Maple	Acer platanoides	8		5	42.42232916	-71.16178126
587	Norway Maple	Acer platanoides	9		5	42.42237371	-71.16175578
588	Norway Maple	Acer platanoides	10		5	42.42241429	-71.16173834
589	Norway Maple	Acer platanoides	11		5	42.42246379	-71.16168336
590	Black Locust	Robinia pseudoacacia	12		5	42.42247765	-71.16173969
591	Norway Maple	Acer platanoides	4		5	42.42250438	-71.16165385
592	Norway Maple	Acer platanoides	6		5	42.42252715	-71.16170379
593	Norway Maple	Acer platanoides	12		5	42.4225685	-71.16167243
594	Norway Maple	Acer platanoides	7		5	42.42268763	-71.16164916
595	Norway Maple	Acer platanoides	4		5	42.42274518	-71.16165145
596	Norway Maple	Acer platanoides	6		5	42.42279768	-71.16156038
597	Norway Maple	Acer platanoides	6		5	42.42271635	-71.16153834
598	Norway Maple	Acer platanoides	12		5	42.42257408	-71.16155874
599	Norway Maple	Acer platanoides	6		5	42.42252062	-71.16156142
600	Norway Maple	Acer platanoides	8		5	42.42244736	-71.1615936
601	Norway Maple	Acer platanoides	8		5	42.42238559	-71.16166727
602	Norway Maple	Acer platanoides	10		5	42.42234203	-71.16169811
603	Norway Maple	Acer platanoides	4		5	42.42238598	-71.16159092
604	Norway Maple	Acer platanoides	4		5	42.42234242	-71.16161774
605	Norway Maple	Acer platanoides	8		5	42.42222749	-71.16163834
606	Norway Maple	Acer platanoides	6		5	42.42232417	-71.16155131
607	Norway Maple	Acer platanoides	4		5	42.42233203	-71.16147371
608	Norway Maple	Acer platanoides	4		5	42.4223933	-71.16146265
609	Norway Maple	Acer platanoides	6		5	42.42241606	-71.16151258
610	Norway Maple	Acer platanoides	6		5	42.42244351	-71.16138334
611	Norway Maple	Acer platanoides	12		5	42.42245741	-71.16148122
612	Norway Maple	Acer platanoides	4		5	42.42250569	-71.16140776
613	Norway Maple	Acer platanoides	6		5	42.42252846	-71.1614577
614	Norway Maple	Acer platanoides	12		5	42.42256981	-71.16142634
615	Black Locust	Robinia pseudoacacia	12		5	42.42263676	-71.16138775
616	Norway Maple	Acer platanoides	10		5	42.42265495	-71.16145853
617	Norway Maple	Acer platanoides	8		5	42.42269529	-71.16137192
618	Norway Maple	Acer platanoides	12		5	42.42275408	-71.16145467
619	Norway Maple	Acer platanoides	6		5	42.42279115	-71.16141801
620	Norway Maple	Acer platanoides	10		5	42.42287534	-71.161354

Tree #	Common Name	Latin Name	UBH	Notes 1	Aros	Latitudo	Longitudo
621			12	MOLES I		Latitude 42.42285716	Longitude
621	Black Locust Norway Maple	Robinia pseudoacacia Acer platanoides	12		5	42.42285716	
623	Norway Maple	Acer platanoides  Acer platanoides	6		5	42.42274885	
	•	•	4		5		
624	Norway Maple	Acer platanoides	8		5	42.42272608	
625	Norway Maple	Acer platanoides				42.42264468	
626	Black Locust	Robinia pseudoacacia	12		5	42.42258088	
627	Norway Maple	Acer platanoides	12			42.42257538	
628	Norway Maple	Acer platanoides	6 12		5	42.42252193	-71.16131533
629	Norway Maple	Acer platanoides				42.42248486	
630	Norway Maple	Acer platanoides	4 10		5	42.42241666	
631	Norway Maple	Acer platanoides			5	42.42251802	-71.1612478
632	Black Locust	Robinia pseudoacacia	12		5	42.42256306	
633	Norway Maple	Acer platanoides	8		5	42.42260884	
634	Norway Maple	Acer platanoides	9		5	42.42265338	-71.16118924
639	Black Locust	Robinia pseudoacacia	12		5	42.42278346	
640	Norway Maple	Acer platanoides	10		5	42.42273841	-71.16114327
641	Norway Maple	Acer platanoides	6		5	42.42274232	-71.1612108
642	Norway Maple	Acer platanoides	12		5	42.42279578	-71.16120811
643	Black Locust	Robinia pseudoacacia	12		5	42.42280128	
644	Norway Maple	Acer platanoides	12		5	42.4228389	-71.16117839
645	Norway Maple	Acer platanoides	8		5	42.42287256	
646	Norway Maple	Acer platanoides	6		5	42.42287663	-71.16113992
647	Black Locust	Robinia pseudoacacia	12		5	42.42292005	
648	Tree of Heaven	Ailanthus altissima	5		5	42.42292761	-71.16110172
649	Norway Maple	Acer platanoides	10		5	42.42297671	-71.16116868
650	Norway Maple	Acer platanoides	4		5	42.4229771	-71.16108831
651	Norway Maple	Acer platanoides	8		5	42.42282923	-71.16111019
652	Black Locust	Robinia pseudoacacia	12		5	42.42278544	-71.16103355
653	Norway Maple	Acer platanoides	9		5	42.42274497	
654	Norway Maple	Acer platanoides	10		5	42.42267071	-71.16107071
655	Norway Maple	Acer platanoides	10		5	42.42262171	-71.16113157
666	Black Locust	Robinia pseudoacacia	12		5	42.42256504	-71.16113808
667	Norway Maple	Acer platanoides	9		5	42.42252458	
668	Black Locust	Robinia pseudoacacia	12		5	42.42244358	-71.16120148
669	Norway Maple	Acer platanoides	12		5	42.42247083	-71.16114445
670	Black Locust	Robinia pseudoacacia	12		5	42.42248334	-71.16105432
671	Norway Maple	Acer platanoides	6		5	42.42252162	-71.16110282
672	Black Locust	Robinia pseudoacacia	12		5	42.42252558	-71.16102369
673	Norway Maple	Acer platanoides	7		5	42.42253007	-71.1609492
674	Tree of Heaven	Ailanthus altissima	5		5	42.4225726	-71.16106462
675	Norway Maple	Acer platanoides	4		5	42.42261318	-71.16099883
676	Norway Maple	Acer platanoides	4		5	42.42267111	-71.16099035
677	Norway Maple	Acer platanoides	6		5	42.42274201	-71.16099828
678	Black Locust	Robinia pseudoacacia	12		5	42.42274597	-71.16091916

T.,,,, 4	Camanan Nama	Latin Name	DDII	Notes 1	۸ ۳۵۵	l o titu d o	Longitudo
	Common Name	Latin Name	_	Notes 1		Latitude	Longitude
679	Tree of Heaven	Ailanthus altissima	5		5	42.42279299	
680	Norway Maple	Acer platanoides	4		5	42.42284249	
681	Norway Maple	Acer platanoides	12		5	42.42289949	
682	Norway Maple	Acer platanoides	9		5	42.42291691	-71.16099796
683	Norway Maple	Acer platanoides	8		5	42.42296963	
684	Norway Maple	Acer platanoides	10		5	42.4228421	-71.16102704
685	Norway Maple	Acer platanoides	6		5	42.42307575	
686	Tree of Heaven	Ailanthus altissima	4		5	42.42286263	-71.1617491
687	Tree of Heaven	Ailanthus altissima	4		5	42.42287488	
688	Tree of Heaven	Ailanthus altissima	4		5	42.42289938	
689	Tree of Heaven	Ailanthus altissima	5		5	42.42296064	-71.16139225
690	Tree of Heaven	Ailanthus altissima	4		5	42.42303416	-71.16129543
691	Tree of Heaven	Ailanthus altissima	4		5	42.42310359	-71.16121797
692	Tree of Heaven	Ailanthus altissima	3		5	42.42318731	-71.16114605
693	Knotweed	Fallopia japonica	10		5	42.4233006	-71.1613745
694	Tree of Heaven	Ailanthus altissima	7		5	42.42345085	-71.16116308
695	Tree of Heaven	Ailanthus altissima	7		5	42.42356173	-71.1611309
696	Tree of Heaven	Ailanthus altissima	7		5	42.42365479	-71.16107725
697	Tree of Heaven	Ailanthus altissima	8		5	42.42367063	-71.16096996
698	Norway Maple	Acer platanoides	24		5	42.4240785	-71.16054886
699	Tree of Heaven	Ailanthus altissima	10		5	42.42409037	-71.16059982
700	Tree of Heaven	Ailanthus altissima	11		5	42.42412007	-71.160573
701	Tree of Heaven	Ailanthus altissima	12		5	42.42410819	-71.16062396
702	Tree of Heaven	Ailanthus altissima	10		5	42.42420521	-71.16053545
703	Norway Maple	Acer platanoides	16		5	42.42435766	-71.16039329
704	Tree of Heaven	Ailanthus altissima	20		5	42.42441508	-71.16034769
705	Tree of Heaven	Ailanthus altissima	30		5	42.42446062	-71.1603772
706	Boxelder	Acer negundo	4		5	42.42454625	-71.16035909
707	Tree of Heaven	Ailanthus altissima	4		5	42.42455318	-71.16034099
708	Boxelder	Acer negundo	4		5	42.42456605	-71.1603269
709	Tree of Heaven	Ailanthus altissima	4		5	42.42458189	
710	Tree of Heaven	Ailanthus altissima	4		5	42.42459555	
711	Tree of Heaven	Ailanthus altissima	4		5	42.4246099	-71.16026496
712	Boxelder	Acer negundo	4		5	42.42463861	-71.16022606
713	Tree of Heaven	Ailanthus altissima	3		5	42.42465445	
714	Tree of Heaven	Ailanthus altissima	3		5	42.42467573	
715		Ailanthus altissima	3		5	42.42469306	
	Norway Maple	Acer platanoides	5		5		-71.16013353
717	Norway Maple	Acer platanoides	5		5	42.42468761	
718	Tree of Heaven	Ailanthus altissima	4		5	42.42471781	-71.16013487
719	Tree of Heaven	Ailanthus altissima	3	Cluster	5	42.42474849	-71.16011207
720	Tree of Heaven	Ailanthus altissima	3	3.03001	5	42.42476829	-71.16009732
721	Tree of Heaven	Ailanthus altissima	3		5	42.42478611	-71.16003732
722	Tree of Heaven	Ailanthus altissima	3		5	42.42478611	-71.16003122
122	iree oi rieavell	Ananthus altissiilla	J	ļ	ر	42.424/0011	-/1.1000/432

Tree #	Common Name	Latin Name	DBH	Notes 1	Area	Latitude	Longitude
723	Boxelder	Acer negundo	6		5	42.42480294	-71.16006513
724	Tree of Heaven	Ailanthus altissima	3		5	42.42482076	-71.1600544
725	Tree of Heaven	Ailanthus altissima	3		5	42.42483165	-71.16003294
726	Tree of Heaven	Ailanthus altissima	5		5	42.42484353	-71.16001953
727	Tree of Heaven	Ailanthus altissima	3		5	42.42487026	-71.15999137

Total Tree Count 137

## Area 5 - Shrub List

Shrub Bed #	Common	Latin	Area	Sq Ft
469	Knottweed	Fallopia japonica	5	712
470	Tree of Heaven	Ailanthus alitissima	5	1687
471	Tree of Heaven	Ailanthus alitissima	5	586
472	Boxelder	Acer negundo	5	302
473	Tree of Heaven	Ailanthus alitissima	5	1790
		Total Square F	eet	5,077

## **Appendix C – Invasive Control Specifications**

The following specifications are applicable for each year of invasive control for the Summer Street Woods CR surrounding Arlington 360, in Arlington, MA.

The site has been divided into five working Areas (Areas 1-5). The Areas have been delineated and defined on included ArcGIS maps. All references to these Areas are consistent with an inventory of invasive plants on the site.

Each area has been measured with approximate acreage and an inventory of approximate invasive plants for removal and treatment have been identified. The scope of work is to be defined by the Area delineation, not the plant count. If additional plants are present at the time of the invasive control, they should be considered for removal under these specifications.

Whitin each area, removal of all:

Norway Maple Acer platanoides
Tree of Heaven Ailanthus altissima
Black Locust Robina pseudoacacia

Boxelder Acer negundo

Buckthorn Rhamnus cathartica
Wild Rose Rosa multiflora
Knotweed Fallopia japonica

Poison Ivy Toxicodendron radicans

As well as any standing or fallen dead trees, as well as debris and brush piles will also be removed.

Specific plant maps and lists will be provided.

#### Trees are to be:

- Cut close to the ground.
- Wood and brush to be removed from the site, no dumping of chips on the site will be allowed.
- Where accessible the stumps are to be ground and the grindings removed from the site.
- Grinding holes are to be filled with loam.

• Where stumps a.re inaccessible to a stump grinder the stumps will be painted with a concentrated solution (20 percent) of glyphosate.

## Shrubs are to be:

- Cut close to the ground.
- Wood and brush to be removed from the site, no dumping of chips on the site will be allowed.
- Cuts will be painted with a concentrated solution (20 percent) of glyphosate.
- Where possible, hand pulling of smaller plants is preferred.

## Method of control of invasive shrubs:

Larger plants can be killed by cutting the shrub and painting the stump with a concentrated solution (20 percent) of glyphosate. Applying the herbicide directly to the cut stump using a foam paint brush will introduce the herbicide to the plant's root system and kill the plant. This method is a targeted application and avoids the need to spray and the associated overspray damage to desirable plants. Cutting and painting avoids unintended damage to desirable plants. Cutting and stump painting may need to be conducted over several seasons to fully eliminate some plants.

The selected vendor, or vendors, will be chosen from qualified bids submittals. The chosen vendor will be fully licensed and insured. They will be qualified to perform tree removal and land clearing operations. They shall provide all equipment necessary to perform the scope of services of this Plan. Location will determine the most appropriate method to remove invasive species. It is expected that a crane will be used in some instances. Other areas may will require tree climbers and felling operations. Specialty land-clearing equipment may also be used. The chosen vendor will determine which methods to employ that will result in minimal impact to the surrounding woodland.

Application of herbicides must be performed by a Massachusetts licensed pesticide applicator.

## **Appendix D – Planting Specifications**

The following specifications are applicable for each year of restoration planting for the Summer Street Woods CR surrounding Arlington 360, in Arlington, MA.

The site has been divided into five working Areas (Areas 1-5). The Areas have been delineated and defined on included ArcGIS maps. All references to these Areas are consistent with the planting areas on the site. Final plant locations shall be determined and marked by the Consulting Arborist and Landscape Contractor prior to each installation season.

As stated in the Invasive Control Specifications, removal of plants in some areas will require access from previously cleared Areas. To achieve this "work-easements" through previous Areas will remain in place year-to-year. There will be no restoration planting on these easements. This will contain impact on the surrounded woodland to a narrow corridor. This has the additional benefit of potentially becoming a walking trails or some other forms of passive recreation use areas upon completion of the project.

## **SPECIFICATIONS**

- A. All trees must be nursery grown, freshly dug, balled and burlapped. Each tree must be tagged with the tree name (genus and species).
- B. Tree caliper shall be determined at six (6) inches above the ground as the tree stands in its natural position. Correct depth of tree must show root flare 1" to 2" above the existing grade and have no exposed surface roots.
- C. Trees shall be specimen quality with single-straight trunks and symmetrical well-branched crowns that are characteristic of the variety.
- D. A list of planting locations will be provided to vendor prior to each planting season.
- E. Eight ounces of a complete organic fertilizer should be inserted in the hole before planting and mixed thoroughly with subsoil before planting. Additionally, eight ounces of biochar must be deposited in the excavated area before planting each tree.

- F. After planting the tree, the void shall be backfilled with a quality loam mixture approved by Consulting Arborist. Soil backfill mixture must be 92% quality, screened loam and 8% compost mixture.
- G. Each tree shall be inoculated with at least four ounces of mycorrhizal inoculant.
- H. All trees shall be watered at the time of planting and backfilled with loam to keep the trees from tipping. At planting, a minimum of 10 gallons of water will be used to insure no air pockets in soil around root ball. The Contractor shall make all arrangements to apply approximately 15 gallons of potable water to each installed tree.
- I. Water shall be applied in a manner that does not cause erosion. The interval of watering shall average once per week throughout the season. Trees fall shall be watered from April 1st to November 1st.
- J. Stakes must be 8' in length at 45-degree angles with chain locks or arbor tie for support. Any broken branches from shipping or transplanting must be properly removed before the site. The planting site must be cleaned up of any dirt, debris or trash before leaving the site. All tags shall be removed from the tree at time of planting.
- F. Stock furnished shall be 1.5 2'' caliper for trees and 3 gal for shrubs. Stock may be larger than specified.
- G. Bark mulch shall be shredded pine bark aged at least six months and not longer than two years. The mulch shall be dark brown in color, free of chunks and pieces of wood thicker than one-quarter (1/4) inch. Mulch shall be free of stringy material over four inches in length, and free of chunks over three inches in width. It shall not contain an excess of fine particles.
- H. Bark mulch shall be placed over entire planting area of individual trees to a depth of three inches. Bark mulch shall be held back from the base of all tree trunks a minimum of three (3) inches. The mulch shall be higher at the edges of the planting to hold water and moisture. Plants

must be mulched and staked at time of planting; mulch must be 3" inches deep.

- I. Maintenance shall consist of keeping the trees in a healthy growing condition and shall include but not be limited to watering, removal of dead material, resetting trees proper to grades or upright position. Any decline in the condition of trees during the maintenance period shall require the Contractor to take immediate action to identify potential problems and undertake corrective measures. If required, Contractor shall engage professional Arborists and Horticulturalists to inspect plant materials and to identify problems and recommend corrective procedures. The owner's representative shall be immediately advised of such actions. The Contractor shall be responsible for arranging police details when necessary and will incur the cost thereof.
- L. The Contractor shall be responsible for the preservation of all public and private property shall use every precaution necessary to prevent damage thereto. If any direct or indirect damage is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work on the part of the Contractor, the property shall be restored to the condition equal to that existing before the damage was done, at the Contractor's expense.
- M. Contractor must stake trees and remove stakes at the end of one year's growing season.

#### N. ACCEPTANCE

Trees shall be accepted provided all requirements have been complied with and the trees are alive and in a healthy, vigorous condition. Final inspection of trees will be made at completion of planting.

## O. WARRANTEE

Contractor hereby warrants that all trees will remain alive and in healthy, vigorous condition for a period of two (2) years after completion and acceptance of the entire project. Trees that die during the warranty period shall be removed immediately and replaced by the Contractor during the next planting season or as directed Consulting Arborist.

Warranty shall not include damage or loss of trees after planting caused by; fires, floods, winds more than seventy (70) miles per hour and acts of vandalism.

## **Appendix E – Assumptions and Limited Conditions**

- 1. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes, or other governmental regulations.
- 2. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant can neither guarantee nor be responsible for the accuracy of information provided by others.
- 3. The consultant shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
- 4. Unless required by law, otherwise, possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant.
- 5. Unless required by law, neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the prior expressed written or verbal consent of the consultant-particularly as to value conclusions, identity of the consultant, or any reference to any professional society or institute or to any initialed designation conferred upon the consultant as stated in his qualifications.
- 6. This report expressed herein represent the opinion of the consultant, and the consultant's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
- 7. Sketches, drawings, and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys unless expressed otherwise. The reproduction of any information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is for the express purpose of coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by *Plant Healthcare Consultants, Inc.* as to the sufficiency or accuracy of said information.
- 8. Unless expressed otherwise: 1) information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection; and 2) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring unless otherwise specified. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

## **Appendix F - Certification of Performance**

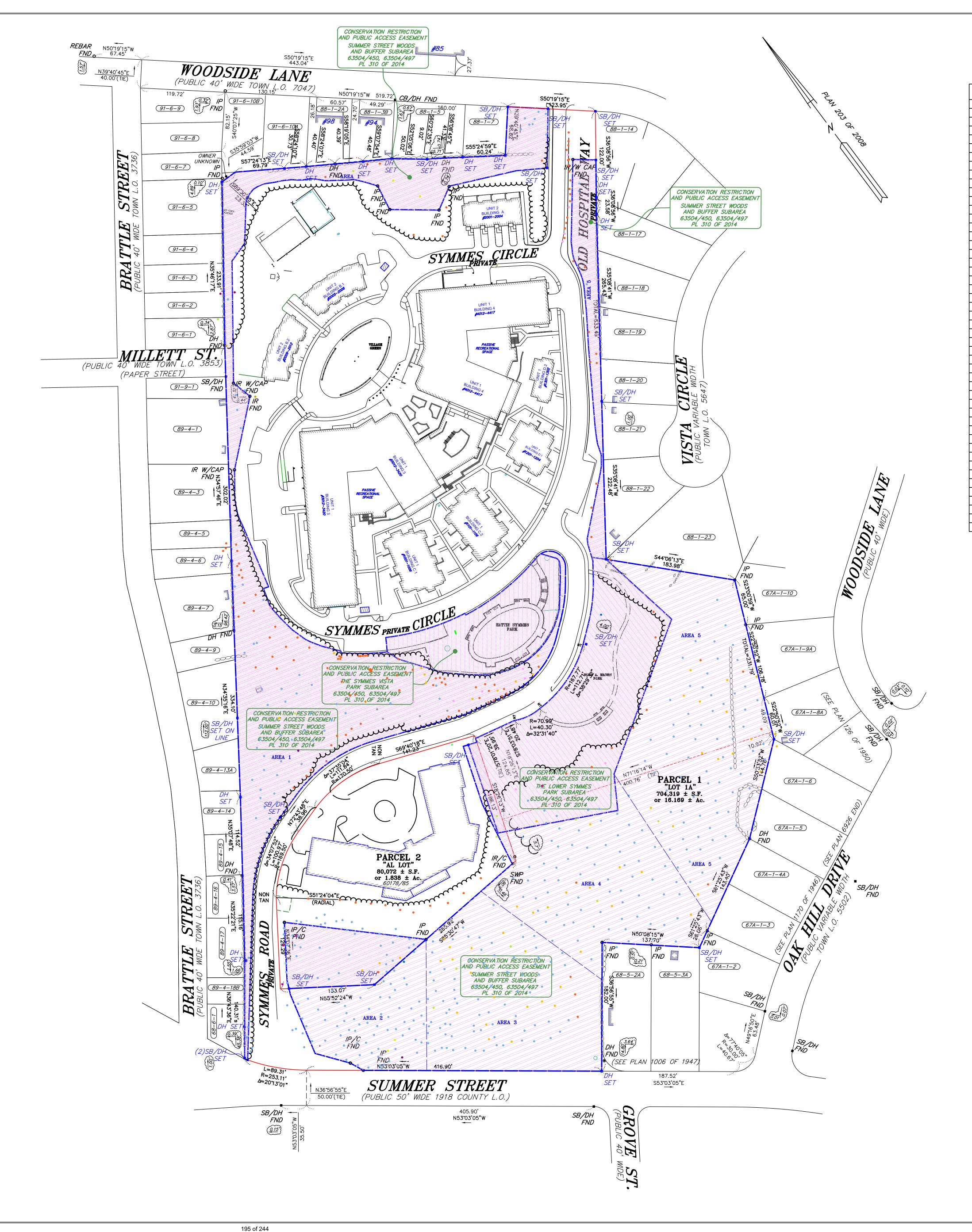
Plant Healthcare Consultants, Inc. certify that:

- 1. We have personally inspected the tree and property referred to in this report and have stated our findings accurately.
- 2. We have no current or prospective interest in the trees or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved.
- 3. The analysis, opinions and conclusions stated herein are our own and are based on current scientific procedures and facts.
- 4. Our analysis, opinions and conclusions were developed, and this report has been prepared according to commonly accepted arboricultural practices.
- 5. No one provided significant professional assistance to us, except as indicated within the report.
- 6. Our compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party or upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.

We further certify that Plant Healthcare Consultants, Inc. is a member in good standing of the Massachusetts Arborist Association, American Society of Consulting Arborists, the International Society of Arboriculture and Massachusetts Tree Wardens and Foresters Association. We have been involved in the field of Arboriculture for over 30 years.

Daniel E. Cathcart

ASCA Registered Consulting Arborist® #766 ISA Board Certified Master Arborist® #TX-1357BM ISA Certified Arborist Municipal Specialist® ISA Tree Risk Assessment Qualified Massachusetts Certified Arborist #41801 Massachusetts Oualified Tree Warden #1097



# ABUTTERS

Map-Block-Lot	Owner Now/Formerly	Book-Page
091.0-0006-0010.A	Forest Martin & Naomi Muller	L.C. 1476-49
088.0-0001-0002.A	Thomas and Daniella Bodine	L.C. 1572-14
088.0-0001-0003.B	Barry Michele A	L.C. 1222-10
088.0-0001-0005.0	Lisa Lazarczyk	L.C. 1505-89
088.0-0001-0007.0	Whitfield John E Jr	L.C. 1131-46
088.0-0001-0014.0	68 Woodside Lane LLC	65383-183
088.0-0001-0017.0	Norberg Carl D	41548-536
088.0-0001-0018.0	Julia D Giolito Life Estate	63575-484
088.0-0001-0019.0	Cunha John A	25059-409
088.0-0001-0020.0	Agostino James J & Rosetta	57310-127
088.0-0001-0021.0	Mc Dermott John D	27027-301
088.0-0001-0022.0	Reichenbach Bodo A & Ingebo	28314-421
088.0-0001-0023.0	Michael Healey & Julie Ayotte	56188-144
068.0-0005-0002.A	Suelene & David Chu George	76518-361
068.0-0005-0003.A	Zoeller Karen F & Ralph A JR	40656-419
068.0-0006-0001.0	Morrison-Paglucia Gina	33236-107
089.0-0004-0018.B	Morrison Paul R	33236-107
089.0-0004-0017.0	Macdonald Ronald F	34079-217
089.0-0004-0016.0	Macdonald Ronald F	34079-217
089.0-0004-0015.0	Driscoll Susan L	49847-98
089.0-0004-0014.0	Petzold Kathryn etal	74603-477
089.0-0004-0013.A	Ford Polly & Aaron	62205-114
089.0-0004-0010.0	Tsomo Nawang	80254-296
089.0-0004-0009.0	Vasic Aleksandar & Jelena	73671-349
089.0-0004-0007.0	Copithorne Arthur W	29626-409
089.0-0004-0006.0	Byrd Matthew & Mary Katherine	74331-201
089.0-0004-0005.0	Baghdadi Reza	79044-472
089.0-0004-0003.0	Maltby Laura L	78914-412
089.0-0004-0001.0	Jurgensen Peter & Mariza	24854-74
091.0-0009-0001.0	Lusk Sarah L/Trustee	70776-54
091.0-0006-0001.0	Doherty Donald J Jr	19682-481
091.0-0006-0002.0	Doherty Donald J Jr	19682-481
091.0-0006-0003.0	Flesch William	42298-42
091.0-0006-0004.0	Dalton Joseph W/Cara N	39607-393
091.0-0006-0005.0	Fitzpatrick Joseph M	49968-166
091.0-0006-0007.0	Moldovan Richard J & Itano Andrea	66204-335
091.0-0006-0008.0	Moldovan Richard J & Itano Andrea	66204-335
091.0-0006-0009.0	Ciampa Marco A/Glenda L	L.C. 1265-15
091.0-0006-0010.A	Forest Martin & Muller Naomi	1476-49
091.0-0006-0010.B	Libby Timothy S & DIPAOLO Lisa	1422-47
067.A-0001-0010.0	Wilson Timothy D——etal	73478-114
067.A-0001-0009.A	Schiffer Lauren, Asmussen Erik	74015-125
067.A-0001-0008.A	Miller Stephan—etal	54545-435
067.A-0001-0007.A	Fichera Gaetano J & Shelly A	51454-388
067.A-0001-0006.0	Delbanco Thomas/Jill	31847-96
067.A-0001-0005.0	Ranere Gerard A & Lois D	14636-555
067.A-0001-0004.A	Brown James S & Phyllis M	79814-574
067.A-0001-0003.0	Yudowski Guillermo & Gleiser Julieta	69829-259
067.A-0001-0002.0	Warrington David R—etal	23925-73
11 000. 0002.0		

TREE LEGEND

COMMON NAME-SEE NOTE 4

BLACK LOCUST

BLACK LOCUST KNOTTWEED

NORWAY MAPLE

TREE OF HEAVEN

BLACK CHERRY/OTHER

SHAGBARK HICKORY/OTHER

BLACK OAK/OTHER
RED OAK/OTHER

WHITE OAK/OTHER

POISON IVY

WILD ROSE

BOXELDER

	LEGEND
ОНW ———	OVERHEAD WIRE
$- \!\!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	LIGHT POLE
Ø	UTILITY POLE
Ø— I	GUY WIRE
	OVERHEAD WIRE
$\diamond^{\scriptscriptstyle LP}$	LIGHT POLE
UP Ø	UTILITY POLE
Ø— i	GUY WIRE
o <sup>S</sup> o—o <sup>S</sup>	SIGN
ullet $B$	BOLLARD
0P	POST
_ <i>HH</i>	HAND HOLE
<b>_"</b> A <b>"</b> HH	TOWN OF ARLINGTON-HAND HOLE
<i>"MH"HH</i>	MASS HIGHWAY HAND HOLE
xxx	CHAIN LINK FENCE
—=====================================	WOOD FENCE
	GUARDRAIL/GUIDERAIL
<i>CC</i>	CONCRETE CURB
	GRANITE CURB
<u>BCB</u>	BITUMINOUS CONCRETE BERM
	PROPERTY BOUNDARY LINE
·	STONE WALL
•	TREE
	TREE (See Note 4)
$\bigcap \bigcap $	TREE LINE
	CONSERVATION RESTRICTION
7777777	DI III DINIO
	BUILDING
BIT CONC CONC	BITUMINOUS CONCRETE CONCRETE
EM	ELECTRIC METER
EOP	EDGE OF PAVEMENT
HC	HANDICAP RAMP
HW	HEAD WALL
TRANSF	ELECTRIC TRANSFORMER
<i>TS</i>	TRAFFIC SIGNAL
■ SB	STONE BOUND
■ SB	STONE BOUND-2023
□ SWP	STONE WITNESS POST (NOTE 5)
	DRILL HOLE

## LEGEND

	Babita
OLUM.	OVERUEAR MIRE
	OVERHEAD WIRE
-Q UP	LIGHT POLE
ø ew	UTILITY POLE
ø— i	GUY WIRE
	OVERHEAD WIRE
-\$- <sup>LP</sup>	LIGHT POLE
Ø	UTILITY POLE
Ø— I	GUY WIRE
o <sup>S</sup> o—o <sup>S</sup>	SIGN
ullet $B$	BOLLARD
0 <i>P</i>	POST
<sub>-</sub> нн	HAND HOLE
_ <i>"А"НН</i>	TOWN OF ARLINGTON-HAND HOLE
_ <i>"MH"HH</i>	MASS HIGHWAY HAND HOLE
	CHAIN LINK FENCE
	WOOD FENCE
CC	GUARDRAIL/GUIDERAIL
GC	CONCRETE CURB
ВСВ	GRANITE CURB
	BITUMINOUS CONCRETE BERM
	PROPERTY BOUNDARY LINE
	STONE WALL
•	TREE
• • • • • • •	TREE (See Note 4)
	TREE LINE
	CONSERVATION RESTRICTION
	BUILDING
BIT CONC	BITUMINOUS CONCRETE
CONC	CONCRETE
	ELECTRIC METER
EM 500	
EOP	EDGE OF PAVEMENT
HC	HANDICAP RAMP
HW	HEAD WALL

PREPARED FOR:

RECORD OWNER:

FHF I ARLINGTON

360, LLC

C/O TA REALTY

28 STATE STREET

10TH FLOOR

BOSTON, MA 02109

C/O GREYSTAR

ONE FEDERAL STREET SUITE 1804

BOSTON, MA 02110

FHF 1 ARLINGTON

360 LLC

DEED BOOK 65951 PAGE 297

ASSESSORS PARCEL

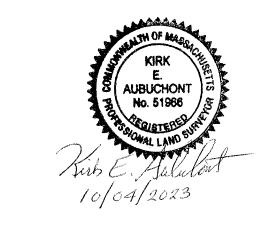
88-1-13

**BRIGHTVIEW** 

ARLINGTON LLC DEED BOOK 60178 PAGE 85

ASSESSORS PARCEL

88 - 1 - 13A



# NOTES

## 1) UNDERGROUND AND SURFACE UTILITIES ARE NOT SHOWN. BEFORE CONSTRUCTION CALL "DIG SAFE" 1-888-344-7233.

DRILL HOLE-2023

LOT NUMBERS

IRON PIN/IRON PIPE

IRON PIN/IRON PIPE-2023

ASSESSOR'S' MAP, BLOCK AND

CONSERVATION RESTRICTION AND

DEED BOOK 63504/450, 63504/497, PLAN 310 OF 2014

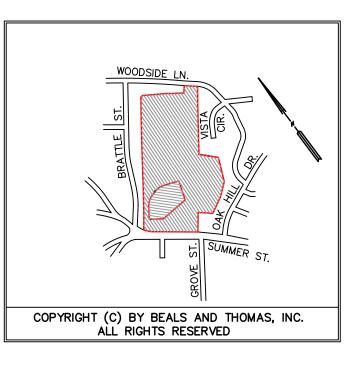
PUBLIC ACCESS EASEMENT

- 2) THIS PLAN IS WAS PREPARED FROM AN ACTUAL SURVEY MADE ON THE GROUND USING A ZEISS ELTA TOTAL STATION AND TRIMBLE S6 TOTAL STATION BETWEEN APRIL 28, 2011 AND
- 3) PROPERTY LINE SOLUTION REFERENCES A PLAN ENTITLED "PLAN OF LAND, SYMMES HOSPITAL ARLINGTON, MASSACHUSETTS..." DATED JANUARY 29, 2008, LAST REVISED MARCH 29, 2008 AND PREPARED BY BEALS AND THOMAS, INC.
- 4) COLORED TREES DEPICTED IN AREAS 1-5 ARE REFERENCED IN THE "FOREST RESTORATION AND INVASIVE SPECIES MITIGATION MANAGEMENT PLAN, SUMMER STREET WOODS CR/ARLINGTON 360" PREPARED BY PLANT HEALTHCARE CONSULTANTS, INC., 134 ALLEN STREET, BRAINTREE, MA 02184. TREE LOCATIONS WERE PROVIDED AS ELECTRONIC .SHP FILES ON SEPTEMBER 29, 2023.
- 5) THE SITE CONTAINS STONE MARKERS THAT WERE PREVIOUSLY SET TO DESIGNATE THE PROXIMITY OF THE CONSERVATION RESTRICTIONS. ONLY A FEW HAVE BEEN LOCATED AND SHOWN ON THIS PLAN.
- 6) EASEMENTS OF RECORD ARE NOT SHOWN.
- 7) MONUMENT SUMMARY:

SEPTEMBER 12, 2023.

26 EXTERIOR MONUMENTS SET AND 15 RECOVERED: 41 6 INTERIOR MONUMENTS SET AND 12 RECOVERED: 18 TOTAL PERIMETER/INTERIOR CONSERVATION RÉSTRICTION MONUMENTS: 59

	5					
	4					
	3					
	2					
	1					
	0	10/04/	2023	١N	IITIAL ISSUE	-
		ISSUE	DATE	Γ	ESCRIPTIO	N
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FLD | CALC | DWN | CHK'D

RESTRICTION PLAN (OVERALL BOUNDARY)
ARLINGTON 360 4105 SYMMES CIRCLI ARLINGTON, MA (MIDDLESEX COUNTY)
PREPARED BY:

CONSERVATION

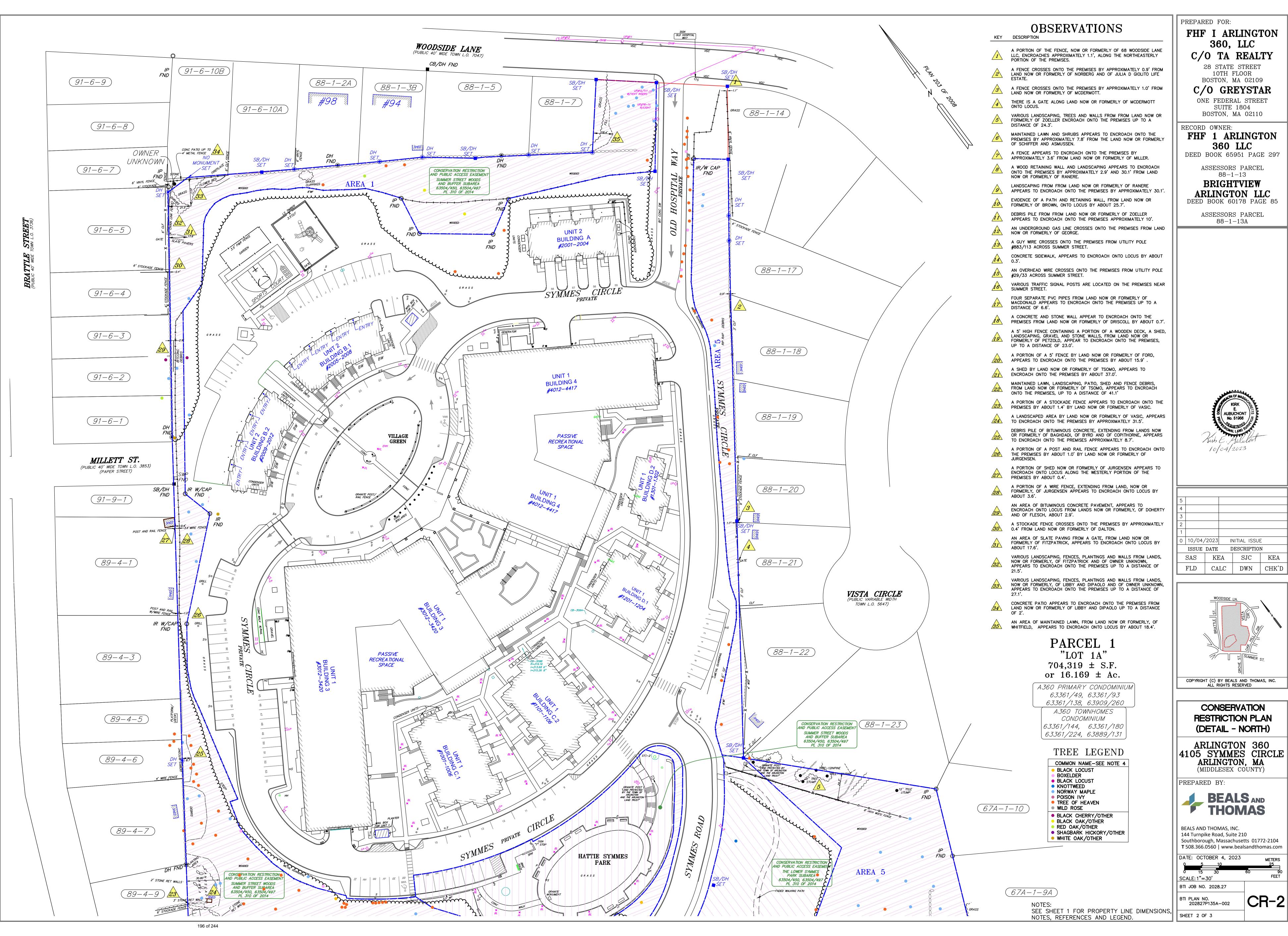


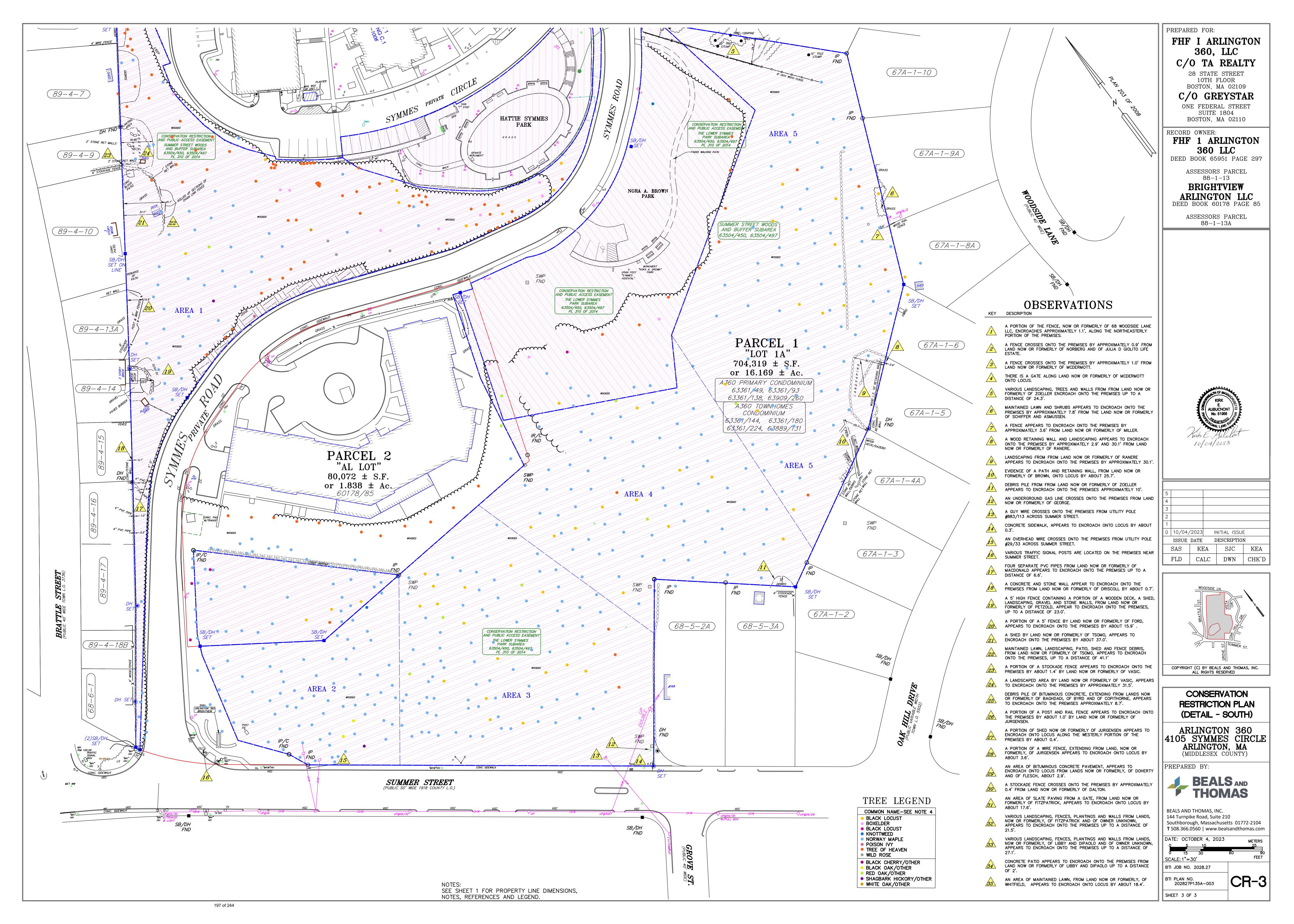
BEALS AND THOMAS, INC. 144 Turnpike Road, Suite 210 Southborough, Massachusetts 01772-2104 T 508.366.0560 | www.bealsandthomas.com

SHEET 1 OF 3

DATE: OCTOBER 4, 2023	METERS
0 10 25	50
0 30 60	120 180
SCALE: 1"=60'	FEET
BTI JOB NO. 2028.27	
BTI PLAN NO. 202827P135A-001	CR-1

NOTES: SEE SHEETS 2 AND 3 FOR DETAIL.







## **Town of Arlington, Massachusetts**

## **Zoning and Ownership of Town-owned Properties.**

## Summary:

Zoning and Ownership of Town-owned Properties.

## ATTACHMENTS:

	Туре	File Name	Description
ם	Reference Material	Property_Transfer_and_Rezoning_Memo.pdf	Property Transfer and Rezoning Memo.pdf
ם	Reference Material	Property_Transfers.xlsx	Property Transfers.xlsx
ם	Reference Material	Rezoning.xlsx	Rezoning.xlsx

## **Spring Warrant Articles**

## David Morgan <dmorgan@town.arlington.ma.us>

Thu 10/5/2023 3:42 PM

To:Joe Connelly <jconnelly@town.arlington.ma.us> Cc:Claire Ricker <cricker@town.arlington.ma.us>

2 attachments (27 KB)

Property Transfers.xlsx; Rezoning.xlsx;

#### Hi Joe,

Claire and I have been talking about a couple administrative changes to open spaces in town. These might make their way to Town Meeting, or maybe we can act on them without needing a vote. First, there are about 12 acres of Town properties that are owned/managed by what seems like the wrong entity for the current use. I'd like to move half into ConCom and the other half into Recreation's wheelhouse. Take a look at the Property Transfers spreadsheet and see what you think.

Similarly, a lot of open spaces in town aren't zoned as such. My go-to example is that the cemetery is zoned for single family, but clearly nobody's trying to live there. There are about 40 more parcels in a similar situation. These include the bikeway, parks, playgrounds, conservation areas, and historic sites. You'll find the list in the Rezoning spreadsheet attached.

If you're on board, I'd be happy to move these forward. Let me know if you want more info or want to meet and discuss.

Cheers,

David

David Morgan | Environmental Planner + Conservation Agent | Department of Planning and Community Development | 781.316.3012

Arlington values equity, diversity, and inclusion. We are committed to building a community where everyone is heard, respected, and protected.

Parcel_ID	Site Name	Owner	Manager	Level of Protection	Article 97	Conservation Restriction	GIS_Acres	s Change
063.0-0004-0004.A	Cooke's Hollow Park	Town of Arlington	Conservation Commission	Perpetuity	Yes	No	0.55	Town > ConCom
051.0-0003-0002.B	Water Street Conservation Area	Town of Arlington Conservation Commission	Conservation Commission	Perpetuity	Yes	No	0.05	ConCom > Rec
027.0-0003-0021.0	Crosby Playground/ Tennis Court	Town of Arlington		Perpetuity	Yes	No	1.43	Town > Rec
027.0-0003-0020.0	Crosby Playground/ Tennis Court	Town of Arlington		Perpetuity	Yes	No	0.62	Town > Rec
159.0-0004-0011.0	Florence Avenue Park	Town of Arlington	Park and Recreation	Perpetuity	Yes	No	3.88	Town > Rec
130.0-0001-0026.A	Parmenter School Playground	Town of Arlington	Park and Recreation	None	No	No	0.41	Town > Rec
N/A	Mill Brook Conservation Area (Lexington)	Town of Arlington		Perpetuity	Yes	No	2.89	Town > ConCom
149.0-0002-0008.0	Robbins Road Open Area	Town of Arlington	Select Board	None	No	No	0.09	Town > ConCom
052.0-0002-0004.B	Mill Brook Open Area	Town of Arlington Park & Recreation Commission	Park and Recreation	Limited	No	No	0.59	Rec > ConCom
015.0-0001-0005.0	Paper Road off Minuteman Bikeway	Town of Arlington Park & Recreation Commission	Park and Recreation	Limited	No	No	1.87	Rec > ConCom
N/A	Arlington Great Meadows	Town of Arlington	Select Board	Limited	No	No	N/A	Town > ConCom

Parcel_ID	SiteName
108.0-0002-0020.0	Forest Street Conservation Area
015.0-0001-0005.0	Paper Road off Minuteman Bikeway
ROW/BIKEWAY	Minuteman Bikeway
062.0-0001-0003.0	Corner of Mass Ave / Drake Rd
165.0-0006-0004.0	Foot of the Rock
058.0-0007-0008.0	Mill Lane Conservation Area
ROW/BIKEWAY	Minuteman Bikeway
056.0-0002-0038.0	MWRA Orchard
ROW/BIKEWAY	Minuteman Bikeway
ROW/BIKEWAY	Minuteman Bikeway
054.0-0001-0001.0	Wellington Park
075.0-0002-0012.0	Medford Boat Club
052.0-0002-0004.B	Mill Brook Open Area
124.0-0001-0006.0	Jason Russell House
ROW/BIKEWAY	Minuteman Bikeway
ROW/BIKEWAY	Minuteman Bikeway
050.0-0001-0001.C	Buzzell Field Access Path
063.0-0004-0004.A	Cooke's Hollow Park
049.0-0001-0019.B	Mt. Pleasant Cemetery
046.0-0001-0012.0	Mt. Pleasant Cemetery
032.0-0001-0001.0	Monument Park
049.0-0001-0021.0	Mt. Pleasant Cemetery
ROW/BIKEWAY	Minuteman Bikeway
009.0-0002-0002.A	Spy Pond Park
011.0-0001-0003.0	The Old Burying Ground Cemetery
024.0-0003-0001.0	St. Paul's Cemetery
035.0-0004-0013.0	Prince Hall Mystic Cemetery
034.0-0005-0001.0	Alewife Brook Reservation
024.0-0002-0006.0	Waldo Park
027.0-0003-0021.0	Crosby Playground / Tennis Court
005.0-0002-0001.0	Hardy School Playground
029.0-0001-0008.0	Gibbs School Playground
005.0-0002-0001.0	Hardy School Playground
122.0-0007-0001.0	Elizabeth Island
014.0-0002-0006.0	Thorndike Field
013.0-0012-0005.A	Mugar
050.0-0007-0001.0	Uncle Sam Monument
088.0-0001-0013.0	Symmes Woods: Summer Street Woods CR
049.0-0001-0019.B	Mt. Pleasant Cemetery
050.0-0008-0001.B	Jefferson Cutter House & Whittemore Park

Owner	Manager	ZoneAbbr
Town of Arlington Conservation Commission	Conservation Commission	R1
Town of Arlington Park	Parks and Recreation Department	R2
Massachusetts Bay Transit Authority	State	B4
Town of Arlington Park	Parks and Recreation Department	B1
Town of Arlington Park	Parks and Recreation Department	B2
Town of Arlington	Town Manager Office	R7
Massachusetts Bay Transit Authority	State	1
Massachusetts DCR	State	R2
Massachusetts Bay Transit Authority	State	1
Massachusetts Bay Transit Authority	State	R5
Town of Arlington Park	Parks and Recreation Department	1
Medford Boat Club	State	R0
Town of Arlington	Parks and Recreation Department	R1
Arlington Historical Society	Private	R2
Massachusetts Bay Transit Authority	State	R2
Massachusetts Bay Transit Authority	State	R7
Town of Arlington Park	Parks and Recreation Department	R6
Town of Arlington	Conservation Commission	R1
Town of Arlington	Cemetery	R2
Town of Arlington	Cemetery	1
Town of Arlington Park	Parks and Recreation Department	R1
Town of Arlington	Cemetery	R1
Massachusetts Bay Transit Authority	State	B5
Town of Arlington Park	Parks and Recreation Department	R2
Town of Arlington	Cemetery	R1
Catholic Cemetery Association	Private	B4
MASONIC GRAND LODGE CORP	Private	R1
Massachusetts DCR	State	R2
Town of Arlington Park	Parks and Recreation Department	R1
Town of Arlington		R1
Town of Arlington School Department	School Department	R2
Town of Arlington School Department	School Department	R1
Town of Arlington School Department	School Department	R1
Arlington Land Trust	Private	R1
Town of Arlington Park	Parks and Recreation Department	PUD
Mugar Enterprises LLC	Private	R2
Town Of Arlington Selectmen	Public Works	B5
Arlington 360 LLC	Private	MU
Town of Arlington	Cemetery	R1
Town of Arlington Redevelopment Board		R1

ZoneName	Pozono
Single Family	<b>Rezone</b> OS
Two Family	OS OS
Vehicular Oriented Business	T
Neighborhood Office	OS
	OS OS
Neighborhood Business	OS OS
Apartments High Density Industrial	T
	OS
Two Family Industrial	T
	T
Apartments Low Density Industrial	
	OS
Large Lot Single Family	00
Single Family	OS OS
Two Family	OS T
Two Family	T
Apartments High Density	T
Apartments Med Density	OS
Single Family	OS
Two Family	OS
Industrial	OS
Single Family	OS
Single Family	OS T
Central Business	T
Two Family	OS
Single Family	OS
Vehicular Oriented Business	OS
Single Family	OS
Two Family	OS
Single Family	OS
Single Family	OS
Two Family	OS
Single Family	OS
Single Family	OS
Single Family	OS
Planned Unit Development	OS
Two Family	?
Central Business	OS
Multi-Use	OS
Single Family	OS
Single Family	OS



## **Town of Arlington, Massachusetts**

Notice of Intent: Thorndike Place (Continuation from 10/19/23).

Summary:

Notice of Intent: Thorndike Place (Continuation from 10/19/23).

The Conservation Commission will hold a public hearing under the Wetlands Protection Act to consider a Notice of Intent for the construction of Thorndike Place, a multifamily development on Dorothy Road in Arlington. This hearing will concern the Conservation Commission's request for peer review of submitted materials. This hearing will include an update on progress regarding wildlife habitat and stormwater peer review.

#### **ATTACHMENTS:**

	Туре	File Name	Description
D	Reference Material	Thorndike_PlacePeer_Review_Solicitation.pdf	Thorndike Place - Peer Review Solicitation.pdf
D	Reference Material	Thorndike_Place_Stormwater_Peer_Review_Proposal _Hatch.pdf	Thorndike Place Stormwater Peer Review Proposal - Hatch.pdf
D	Reference Material	Thorndike_Place_Stormwater_Peer_Review_Proposal _Kleinfelder.pdf	Thorndike Place Stormwater Peer Review Proposal - Kleinfelder.pdf
D	Reference Material	Thorndike_Place_Stormwater_Peer_Review_Proposal _W_S.pdf	Thorndike Place Stormwater Peer Review Proposal - W&S.pdf

#### Thorndike Place Peer Review

I'm writing to inquire about your availability to conduct a peer review of certain portions of a Notice of Intent application under consideration by Arlington's Conservation Commission. Please let me know if you are able to take on the scope of work described below, and if so, please provide a timeline and cost estimate.

Thorndike Place is a proposed multifamily development in east Arlington along Route 2. The subject site contains Bordering Vegetated Wetland, Buffer Zone to BVW, and Bordering Land Subject to Flooding. The application is being considered under the Wetlands Protection Act (WPA) only because it has already received a Comprehensive Permit under 40B regulations. The BSC Group is working on behalf of the applicant, Arlington Land Realty, LLC of Boston; Oaktree Development is also involved in the proposed project.

#### **Stormwater Review**

The Conservation Commission is seeking peer review of the Stormwater Report and Management Plan associated with the Thorndike Place development to determine whether it complies with the Massachusetts Stormwater Standards. For reference, the associated materials can be found <a href="here">here</a>. The scope of work should include background and document review, a memorandum or letter to the Commission containing your conclusions and recommendations following this review, a review of the applicant's response to your initial memorandum, a written reply to the Commission addressing the applicant's response, a site visit, attendance at two Conservation Commission public hearings (held via Zoom). The Town will facilitate communication with the applicant and provide additional information as needed.

If you are available and interested, please submit your proposal by noon on Tuesday, October 31st.

#### **Habitat Review**

The Conservation Commission is seeking peer review of the Thorndike Place Planting Plan, contained in the Notice of Intent, for compliance with the performance standards for restoration work in Bordering Land Subject to Flooding (BLSF) and standards for work in the Buffer Zone to Bordering Vegetative Wetland (BVW). The Commission not only wishes to know whether the plan is designed to succeed also wishes to know whether the plan will enhance wildlife habitat characteristics as detailed in 310 CMR 10.60; the applicant has agreed that such a standard should be the goal, even if that performance standard does not strictly apply. The scope of work should include background and document review, of the relevant documents, a memorandum or letter to the Commission containing your conclusions and recommendations following this review, a review of the applicant's team's response to your initial memorandum, a written reply to the Commission addressing the applicant's response, a site visit, meeting support for at least two Conservation Commission public hearings (held via Zoom), and a final report. The Town will facilitate communication with the applicant and provide additional information as needed. For reference, the associated materials can be found here.

If you are available and interested, please submit your proposal by noon on Tuesday, October 31st.



10/31/2023

David Morgan, Environmental Planner + Conservation Agent Town of Arlington 730 Massachusetts Avenue Arlington, MA 02476

Dear David:

Subject: Proposal for Stormwater Review of the Thorndike Place

The attached Offer for Engineering and Consultancy Services outlines the scope, approach to be used to complete the project, the deliverables and our commercial offer.

The overall cost is estimated to be \$10,700 on a lump sum basis. Hatch will perform the work outlined in this Offer for Engineering and Consultancy Services in accordance with the attached Schedule of Rates and Professional Services Terms and Conditions. This letter, the Statement of Work, Hatch Standard Terms and Conditions and Hatch Schedule of Rates form the whole agreement between Town of Arlington and Hatch.

If this offer is acceptable to Town of Arlington, please sign the attached Acceptance and we can mobilize the team to start to undertake this work for you. If you would like to meet with me to clarify and further discuss any aspect of this offer, please call me at 978-224-3123.

Yours faithfully,

**Duke Bitsko** 

DB:DB Ref.: Document1 Attachment(s)

cc: Ross Mullen Andrew Keel Rob Kenneally



## OFFER FOR ENGINEERING AND CONSULTANCY SERVICES

for

## **Proposal for Stormwater Review of the Thorndike Place**

## 10/31/2023

Client Name: Town of Arlington

**Project Name:** Proposal for Stormwater Review of the Thorndike

Place

Client Contact: David Morgan, Environmental Planner + Conservation

Agent

Hatch Contact: Duke Bitsko, PLA
Estimated Start Date: November 3, 2023
Estimated Completion November 22, 2023

Date:

Cost Basis: Reimbursable Costs Basis

Project Estimate: \$10,700

#### Introduction

This proposal is response to a request for engineering services for a stormwater review of the Thorndike Place emailed to Duke Bitsko on October 26, 2023.

## **Scope of Work**

Hatch proposes to complete a peer review of the proposed Thorndike Place development in accordance with the Massachusetts Stormwater Standards, the Code of Federal Regulations, and stormwater engineering best management practices. Our review will review the drawings and stormwater report with supporting technical calculation package. The review will include review of:

• Stormwater management facilities and technical calculations, including rate control, water quality analysis, and volume management/groundwater recharge.



Proposal Unnumbered, Rev. A

David Morgan, Environmental Planner + Conservation Agent Town of Arlington 10/31/2023

- FEMA floodplain/floodway encroachments, compensatory storage, and CLOMR/LOMR/no-rise documentation.
- Best management practices for placement and use of Erosion and Sediment Controls including review of the SWPPP.
- Wetlands impacts due to construction disturbance and/or hydrologic inflow changes, mitigation/remediation of impacts and/or offsets, and provided buffers zones.
- Proposed Operation & Maintenance plan, including review of best practices for adoption such recording of stormwater practices on the plat and/or in storm maintenance agreement with the Town.

Our review will include an initial memorandum documenting our background document review, engineering review findings, as well as recommendations for approval, conditional approval, recommended site modification, or denial of the proposed development. We will respond to and/or review one additional submittal package from the applicant following the initial memorandum, attend up to 2 meetings via Teams, and attend a site visit.

#### **Assumptions/Exclusions:**

- Wetland delineations, classifications, and characterizations are excluded from this proposal.
- Virtual meeting attendance is limited to a project reference and called upon on an asneeded basis. Hatch has budgeted for 1 hour of staff attendance at each meeting and has not included hours necessary for presentation preparation for meetings. We assume these meetings will occur on or before December 22, 2023.
- Hatch has budgeted for one staff member to attend a site visit for up to 2-hours plus travel time.

#### **Execution Plan**

The proposed scope of work will be undertaken within a three-week period following receiving the authorization to proceed and being provided access to all of the data required for the task.



## **Hatch Project Team**

The following is the proposed project team. Complete resumes can be made available upon request.



## DUKE BITSKO, PLA

## **Principal In Charge**

Duke Bitsko has more than 25 years of experience in program and project management, master planning, permitting, and design with an emphasis on context sensitive, sustainable design. His relevant experience includes ecological restoration, bioengineering, Green Infrastructure, and climate resiliency at the site scale. His recent work in Arlington includes Wellington Park, Spy Pond Shoreline Restoration, Egerton Road bioretention basins, and Cooke's Hollow. He has developed long-term Vegetation Management Plans for the Alewife Reservation, Fresh Pond Reservation, Wellington Park, and Spy Pond Park, working with managers over time to apply Adaptive Management principles. He has been a conservation commissioner in Lexington for 23 years.



ROB KENNEALLY, PE

## **Senior Project Engineer**

Rob Kenneally has over 30 years of experience with increasing responsibilities as a civil/site design engineer and project manager. His technical background includes geotechnical engineering, hydrologic/hydraulic analysis, and civil site development. He has applied his technical expertise and project management experience on projects that range from the design and construction of stormwater management projects, management of landfill closures, to the construction of sewer mains utilizing hard rock and soft ground tunneling techniques, and to various subsurface site investigations involving environmental and geotechnical investigations.



ROSS MULLEN, PE, CFM

## **Water Resources Engineer**

Ross recently joined Hatch as a Water Resources Engineer with over a decade of experience as a consulting engineer. His primary expertise is in hydrologic and hydraulic modeling, stormwater management, floodplain management, erosion and sediment management, urban water quality studies, stream restoration, and design of hydraulic structures. Ross previously served as the designated stormwater reviewer and engineering consultant for a 7-member city watershed.



## **Commercial Offer**

#### Overview

Hatch is pleased to provide the following commercial offer to the Town of Arlington for the professional services (the "Services") detailed herein.

## **Pricing**

Hatch proposes to perform the Services for a price of USD \$10,700 on a lump sum price basis, exclusive of adjustments for variations. Approved variations will be performed on a lump sum basis in accordance with mutually agreed change procedures. An overview of this offer is provided in the Table 3.

Table 3: Estimated Breakdown of the Cost Estimate

Task	Level of Effort (hrs)	Total (\$)
Desktop Stormwater Review	42	\$9,000
Site Visit	4	\$1,200
Attend two (2) Virtual Meetings	2	\$500
TOTAL ESTIMATED COST:	48	\$10,700

#### **Basis of Compensation**

As full compensation for the services, Hatch will be paid the sum of all lump sum billings incurred in the execution of the services.

#### **Invoicing & Payment**

Hatch proposes the following milestones for payment of the Lump Sum price following completion of the scope of work. Payment terms are net 30 days from date of issuance of invoice.

Hatch reserves the right to modify the payment milestones based on changes to the schedule or as mutually agreed to between Hatch and Town of Arlington.

#### **Additional Services**

If additional scope is needed, then Hatch will prepare a Project Change Authorization (PCA) which will provide an estimate of cost of the change and once agreed to and signed, Hatch will commence the work on this scope addition.

#### **Contract Terms and Conditions**



Proposal Unnumbered, Rev. A

Hatch will perform the Services detailed in this offer in accordance with the Professional Services Terms and Conditions included in Attachment A, on which this proposal has been expressly based.

## **Validity**

This offer remains valid for a period of 90 days from the date of this letter and is subject to a contract being signed and effective prior to the start.

## **Acceptance of Offer**

Town of Arlington accepts this proposal and requests Hatch to undertake the assignment as detailed above.

Signed	on behalf of Hatch by:	Signed on behalf of Town of Arlington by:
Name:	Duke Bitsko, PLA	Name:
Title:	Director of Interdisciplinary Design	Title: Date:



## **Attachment A – Terms and Conditions**



## Attachment B - Schedule of Rates

## **CLIENT PROFESSIONAL SERVICES AGREEMENT**

Kleinfelder Northeast, Inc. and Arlington, Massachusetts

<b>This Agreement is made on:</b> between the Town of Arlington, MA ( <b>Client</b> ) and Kleinfelder Northeast, Inc. ( <b>Kleinfelder</b> ). Client hereby appoints Kleinfelder to provide certain Services (as defined below), and Kleinfelder hereby agrees to perform the Services, on the following terms and conditions:				
1. SCOPE OF SERVICES				
Client engages Kleinfelder to provide, and Kleinfelder Kleinfelder's Proposal dated October 31, 2023 ( <b>Propo</b>	er agrees to provide, the professional services as set forth in sal).			
2. SCHEDULE AND PAYMENT				
Kleinfelder shall perform the Services, and Client sha basis set forth in the Proposal.	Il pay Kleinfelder, in accordance with the schedule and payment			
3. GENERAL CONDITIONS AND ADDENDA				
THE GENERAL CONDITIONS ON PAGE 2 CON OTHER IMPORTANT PROVISIONS AFFECTING TH	TAIN INDEMNIFICATION, LIMITATION OF LIABILITY AND E PARTIES' LEGAL RIGHTS AND OBLIGATIONS.			
	ee to this Agreement, the General Conditions, the Indemnity and d all Proposal, Fee Schedule and addenda identified herein.			
identified herein, which taken together apply to all s	al Conditions and any Proposal, Fee Schedule and addenda services undertaken pursuant to this Agreement, represent the ments on the same subjects between the parties, either oral or in			
This Agreement is governed and construed in accordance with the laws of the state where the Services are performed. The parties irrevocably and unconditionally submit to the non-exclusive jurisdiction of the courts of such state and waive any right to object to any proceedings being brought in those courts. The parties hereby expressly waive any and all rights to trial by jury.				
<b>EXECUTED</b> by the parties as of the date first written above:				
CLIENT:	KLEINFELDER:			
	Dellelige.			
Ву:	Ву:			
Printed Name:	Printed Name: Cecilia Carrion-Carmona			
Title: Business Operations Manager, Kleinfelder Northeast, Inc.				

#### CLIENT PROFESSIONAL SERVICES AGREEMENT – GENERAL CONDITIONS

- 1. <u>Standard of Care</u>. Kleinfelder will perform its Services in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the Services are provided. Kleinfelder makes no representation, guarantee or warranty, express or implied, regarding the Services, or any communication (oral or written), certification, report, opinion, or Instrument of Service provided under or pursuant to this Agreement.
- 2. <u>Insurance</u>. Kleinfelder will maintain worker's compensation, commercial general liability, automobile liability and professional indemnity insurance coverage. Client will maintain adequate insurance coverage and will require and verify any contractors or parties it hires to have adequate insurance coverage. Client agrees that its failure to comply with this clause invalidates any indemnity by Kleinfelder hereunder.
- 3. <u>Pricing and Payment</u>. The hourly rates charged for Kleinfelder's Services are adjusted annually in January of each year to reflect changes in the various elements that comprise such hourly rates. Kleinfelder reserves the right to periodically adjust its fee schedule. Except as otherwise provided in the first page of this agreement or Proposal, Client shall pay invoices upon receipt. Invoices not paid within thirty (30) days of invoice date incur a fee of 1½ % per month from the date of invoice and suspension by Kleinfelder of all Services.
- 4. <u>Prevailing Wages</u>. It is Client's legal responsibility to determine whether the Project is covered under prevailing wage regulations. Unless Client specifically informs Consultant in writing that the Project is a prevailing wage project and is identified as such in Consultant's Scope of Services, Client agrees to defend, indemnify and hold harmless Consultant from and against all liabilities, losses, claims, costs and damages (including reasonable costs and attorneys fees), resulting from a determination that the Project was covered under prevailing wage regulations.
- 5. <u>Termination</u>. Either party may terminate this Agreement at any time upon written notice, whether for cause or for convenience, in which event Client shall pay Kleinfelder for such portion of the Services performed and materials provided up to the date of termination.
- 6. Performance. Kleinfelder will perform the Services as an independent contractor and will not act as Client's agent or employee. The parties do not intend to create, and nothing in this Agreement will be construed to create, any special relationship or fiduciary duty. Kleinfelder will be subject to and operate in compliance with all federal, state and local laws and regulations. Client agrees that Kleinfelder will not be responsible for the means, methods, techniques, sequences or procedures of construction, for constant or exhaustive inspection of construction work, or for the safety procedures employed by any party other than its own employees and subcontractors. Kleinfelder will only sign certifications relating to the Services if Kleinfelder agreed in writing prior to the commencement of the Services to provide them. Such certifications are statements of professional opinion only. Kleinfelder will not be liable for delay or failure to perform its Services caused directly or indirectly by circumstances beyond its control, including but not limited to, acts of God, fire, flood, war, sabotage, accident, labor dispute, shortage, government action or inaction, changed conditions, site inaccessibility, or delays due to actions or inactions of Client or others.
- 7. Client Responsibilities. Client agrees to provide all available material, data, and information pertaining to the Services, including, without limitation, (i) composition, quantity, toxicity, or potentially hazardous properties of any material known or believed to be present at any site, (ii) hazards that may be present, (iii) nature and location of underground or otherwise not readily apparent utilities, (iv) summaries and assessments of site past and present compliance status, (v) status of any judicial or administrative action concerning the site or Project, and (vi) Client's relevant benchmarks, plans, maps, and property ownership records. Client will ensure the cooperation of Client's employees, contractors and consultants ("Client Parties") with Kleinfelder. Kleinfelder is entitled to rely upon the accuracy and completeness of all information given by Client Parties.
- 8. INDEMNITY; LIMITATION OF LIABILITY. Client will defend, indemnify and hold harmless Kleinfelder, its officers, directors, parent, affiliates, shareholders and employees, from and against any all claims, demands, causes of action, damages or other liabilities, including but not limited to attorney's fees and other legal expenses reasonably incurred by Kleinfelder (collectively, "Claims"), that arise from performance of the Services or from Kleinfelder's acts, errors or omissions in connection with the Project or this Agreement, excepting Claims arising from the sole negligence or wilful misconduct of Kleinfelder. The maximum aggregate liability of Kleinfelder in connection with this Agreement and all amendments thereto, whether based in contract or tort or otherwise in law or equity, will be limited to the greater of the compensation actually paid to Kleinfelder for the Services hereunder or \$50,000, and Client hereby releases Kleinfelder from any liability above such amount. Upon Client's written request, the parties may negotiate and enter a written amendment in accordance with clause 11 herein to increase the amount of this limitation of liability in exchange for an increased payment to Kleinfelder. As used in this clause 8, "Kleinfelder" includes Kleinfelder, its affiliates, subcontractors, and each of their respective partners, officers, directors, shareholders and employees. Neither party will be liable to the other for any special, incidental, indirect, exemplary, punitive or consequential damages however arising incurred by either Kleinfelder or Client or for which either may be liable to a third party.
- 9. <u>Reliance</u>. The documents provided by Kleinfelder to Client under this Agreement may be based on information obtained from sources outside Kleinfelder's control. Other than the application of prudent professional care in their evaluation, Kleinfelder does not warrant, expressed or implied the accuracy thereof. All documentation furnished to Client is intended for the benefit of the Client for the purpose stated herein and is not intended or represented to be suited for reuse by Client or others. Any reuse or provision of the documents to others without the specific written consent of Kleinfelder for the specific purposes intended will be at user's sole risk and without liability and legal exposure to Kleinfelder.
- 10. <u>Hazardous Materials; Samples.</u> Kleinfelder will not take title to or be liable for any hazardous materials found at any project site. Any risk of loss with respect to all materials remains with the Client or the site owner, who will be considered the generator of such materials, execute all manifests as the generator of them, and be liable for the arrangement, transportation, treatment, and disposal of all material. All samples remain the Client's property. Client agrees to promptly, at its cost, remove and lawfully dispose of samples, cuttings, and hazardous materials.
- 11. <u>Amendments, Changes, Assignment, Waiver, Compliance</u>. This Agreement represents the entire agreement of the parties, and may be modified only in a writing signed by both parties. To the extent of any inconsistency between this Agreement and any other document, the provisions of this Agreement will always prevail. Any preprinted terms and conditions on forms used by either party in the administration of this Agreement are void and shall not act to supplement or replace these Terms and Conditions. Neither party may assign this Agreement without the other's prior written consent. Waiver of any term, condition or breach of this Agreement will not operate as a waiver of any other term, condition or breach. Client and Kleinfelder shall abide by 41 CFR 60-1.4(a), 60-300.5(a) and 60-741.5(a), which prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on race, color, religion, sex or national origin. Covered contractors and subcontractors shall take affirmative action to employ and advance individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.



October 31, 2023

David Morgan, Conservation Agent Town of Arlington, MA 730 Mass Ave. Annex Arlington, MA 02476

Re: Proposal scope – Peer Review of Stormwater Design

Thorndike Place Notice of Intent Application

Dear Mr. Morgan,

Kleinfelder is submitting with this letter a proposed Scope of Services for technical support to the Arlington Conservation Commission. It is Kleinfelder's understanding that the Arlington Conservation Commission is seeking a peer review of the Stormwater Report and Management Plan associated with the Thorndike Place development to determine compliance with the Massachusetts Stormwater Standards.

Thorndike Place is a proposed multifamily development in east Arlington along Route 2. The subject site contains Bordering Vegetated Wetland, Buffer Zone to BVW, and Bordering Land Subject to Flooding. The application is being considered under the Wetlands Protection Act (WPA). Arlington Land Realty, LLC of Boston is the applicant with support from the BSC Group.

Kleinfelder anticipates the following scope of work to support the Arlington Conservation Commission:

#### **Task 1: Document Review**

Kleinfelder will hold an initial meeting with the Arlington Conservation Agent to develop a complete understanding of the project. In addition, we will conduct reviews of the following provided documentation:

- A. Stormwater Report (September 2023)
- B. Thorndike Place Plan Set (September 2023)
- C. Notice of Intent filing (September 2023)

## Task 2: Site Visit

Kleinfelder will conduct a site visit to obtain a comprehensive understanding of site conditions, location and proximity to resource areas.

#### **Deliverable:**

Based on information gathered in Tasks 1 and 2, Kleinfelder will prepare a summary memorandum to document findings and provide conclusions and recommendations to the Arlington Conservation Commission.

#### Task 3: Review of Applicant Team's Response to Comments and Client Representation

Kleinfelder will conduct a review of the Applicant's response to our review summary to ensure that all points are being addressed and there is agreement on approach moving forward. Additionally, Kleinfelder will attend two Conservation Commission public hearings to present findings.

#### **Deliverables:**

- 1. Memorandum of findings
- 2. Letter response to Applicant response to comments
- 3. Attendance (virtual) at two Conservation Commission public hearings

### **Assumptions:**

Kleinfelder is assuming that the memorandum of findings will include a limited review of the stormwater design only.

#### Schedule

Kleinfelder will commence work immediately upon receipt of a signed task order. Kleinfelder assumes a project duration of approximately 3 months (February 2023) to allow review and comment period.

#### Fee

Kleinfelder anticipates needing 40 hours of senior technical staff to support for this effort. Based on this estimate, Kleinfelder proposes to provide support to the Arlington Conservation Commission as described above on a time and materials basis to a maximum of \$10,000 (Ten Thousand Dollars). All time and expenses will be charged as noted in the attached rate table. Should additional effort be warranted based on additional meetings or iterations of design review, Kleinfelder will notify the Commission prior to proceeding with out-of-scope work.

This proposal is valid for a period of 3 months from the date of this proposal. If authorization or review periods significantly extend beyond the established timeframe, Kleinfelder reserves the right to negotiate adjustment to pricing.

Sincerely,

**KLEINFELDER** 

Peter Varga, Project Manager

Attachments: Rate table, terms and conditions

cc: Kyle Johnson, Greg Avenia, Chris Balerna, Kleinfelder

File



### **Hourly Billing Rate Schedule**

Rates effective through 8/1/2024, subject to 5% escalation thereafter

Position	Maximum Billing Rate*
Sr. Program Manager	\$330
Sr. Principal Professional	\$310
Project Manager III	\$260
Principal Professional	\$240
Sr. Professional	\$200
Project Manager II	\$180
Project Professional	\$170
Staff Professional II	\$150
Staff Professional I	\$130
Professional	\$110

<sup>\*</sup>Actual billing rates vary by staff member, maximum rate per position provided

Mileage Reimbursement: IRS federal mileage rate

Additional rates for personnel not listed will be provided upon request



October 31, 2023

55 Walkers Brook Drive, Suite 100, Reading, MA 01867

David Morgan
Environmental Planner & Conservation Agent
Department of Planning and Community Development
730 Massachusetts Ave
Arlington, MA 02476

Re: Proposal for Professional Engineering Services
Stormwater Peer Review for Proposed Thorndike Place Development

Dear Mr. Morgan:

Weston & Sampson is pleased to present our proposal to provide peer review services related to the proposed Thorndike Place development. We will evaluate the proposed project's stormwater management system for compliance with the Massachusetts Stormwater Standards and other applicable local regulations as discussed below. The following project documents have been provided to Weston & Sampson by the Town of Arlington:

- Notice of Intent Cover Letter, prepared by BSC Group, September 6, 2023
- Notice of Intent Submittal, prepared by BSC Group, September 2023
- Thorndike Place Plan Set, prepared by BSC Group, September 6, 2023
- Stormwater Report for Thorndike Place, prepared by BSC Group, September 2023

We will perform the following specific tasks related to the drainage system evaluation:

- Review the Stormwater Report, Plan Set, Notice of Intent, and other relevant background information prepared for the project.
- Review the proposed drainage design for compliance with the Massachusetts Stormwater Standards.
- Confirm the drainage catchment areas.
- Review HydroCAD model parameters and output results.
- Check sizing of infiltration system components.
- Review the mounding analysis and supporting test pit logs provided by the applicant to evaluate the feasibility of the proposed infiltration systems.
- Conduct one (1) site visit.
- Prepare a letter report to summarize our results and provide recommendations for appropriate modifications or improvements.
- Review the applicant's response to our initial letter report and prepare a written reply to the Conservation Commission addressing the applicant's response.

Attend up to four (4) meetings to present our report and discuss our recommendations. This
includes two (2) virtual meeting with the Developer and/or the Town, and two (2) virtual
Conservation Commission public hearings.

### Time of Project

Weston & Sampson can begin work immediately following a notice to proceed and submit our initial peer review report within four (4) weeks. Upon receipt of a response from the applicant, we can prepare a written reply to the Conservation Commission within three (3) weeks.

#### **Payment**

The sum of all work shall be performed for a lump sum fee of \$25,000 for the scope of services described herein. For services performed under this Proposal, fees shall be billed monthly as they accrue based upon the services performed as a percent of the total lump sum fee .

We appreciate the opportunity to submit this proposal. If you have any questions or need additional information please contact me. I may be reached at (978) 532-1900 or <a href="mailto:elmerd@wseinc.com">elmerd@wseinc.com</a>.

Very truly yours,

WESTON & SAMPSON ENGINEERS, INC.

David M. Elmer, P.E. Discipline Leader/Vice President





### **Town of Arlington, Massachusetts**

Request for Determination of Applicability: 70 Dow Avenue.

### Summary:

Request for Determination of Applicability: 70 Dow Avenue.

The Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for an addition to the existing structure at 70 Dow Avenue in Arlington.

#### ATTACHMENTS:

	Type	File Name	Description
D	Reference Material	70_Dow_AvenueRDA10.24.23.pdf	70 Dow Avenue - RDA - 10.24.23.pdf



October 24, 2023

### **Electronic Delivery and Hand Delivery**

Arlington Conservation Commission Arlington Town Hall Annex 730 Massachusetts Avenue Arlington, MA 02476

Re: Request for Determination of Applicability

70 Dow Avenue

Assessor's Parcel ID: 178-4-3
Arlington, Massachusetts

Dear Members of the Conservation Commission:

On behalf of the Applicant, Express Remodeling Group (Samantha Almeida, Contact), LEC Environmental Consultants, Inc., (LEC) is re-filing the enclosed Request for Determination of Applicability (RDA) with the Arlington Conservation Commission to confirm that no Wetland Resource Areas jurisdictional under the *Massachusetts Wetlands Protection Act* (M.G.L. c. 131, s. 40, the *Act*) and its implementing Regulations (310 CMR 10.00, the *Act Regulations*), and the *Town of Arlington Wetlands Protection Bylaw* (Article 8, the *Bylaw*) and its implementing *Wetlands Protection Regulations* (March 1, 2018, the *Bylaw Regulations*) occur on the site.

The Applicant filed for a Building Permit in December of 2022 for the construction of an addition and deck off the rear of a single-family dwelling. The Building Permit has been on hold due to the Town of Arlington GIS Map, which indicates a regulated area in the vicinity of the site (Appendix C, Figure 4).

LEC was retained by Express Remodeling Group to conduct a site evaluation and Wetland Resource Area boundary determination at the property. Our site evaluation was conducted in accordance with the *Act*, the *Bylaw*, and *Bylaw Regulations*, and the criteria provided in the *Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands* (Second edition, 2022), and *Field Indicators for Identifying Hydric Soils in New England* (Version 4, June 2020, the *Field Indicators Guide*). Our observations suggest that no jurisdictional wetland resource areas under the *Act* or the *Bylaw* occur on or within 100 feet of the subject property as further outlined below.

Appendix A contains the WPA Form 1 – Request for Determination of Applicability and Bylaw Filing Fees and Transmittal Form; Appendix B contains the Abutter Notification documents required under the Bylaw; Appendix C contains pertinent maps and figures; and Appendix D contains a Plan of Land

LEC Environmental Consultants, Inc.

12 Resnik Road Suite 1 Plymouth, MA 02360 508.746.9491 380 Lowell Street Suite 101 Wakefield, MA 01880 781.245.2500 100 Grove Street Suite 302 Worcester, MA 01605 508.753.3077 P.O. Box 590 Rindge, NH 03461

603.899.6726

680 Warren Avenue Suite 3 East Providence, RI 02914 401.685.3109 222 of 244

www.lecenvironmental.com

[LEC File #: ERG\23-464.04]



prepared by Professional Land Surveyor Thomas Bernardi dated October 2, 2023. A check payable to the Town of Arlington in the amount of One Hundred Fifty Dollars (\$150.00) for the purpose of filing this RDA under the *Bylaw* will be delivered by the Applicant.

### **General Site Description**

The 5,500± square foot property is located north of George Street and south of Valentine Road within the southwest portion of Arlington, Massachusetts (Appendix C, Figures 1, 3, and 4). More specifically, the property is located on the east side of Dow Avenue, northeast of the Rhinecliff Street intersection. Residential development associated with Dow Avenue, George Street, and Rhinecliff Street occurs to the north, west, and south, while the Cyrus E. Dallin School is located southeast of the site.

The property contains a 2-story, single-family dwelling with a paved driveway extending from Dow Avenue to a detached one-car garage. A concrete walkway extends from the driveway to a porch, providing access to the dwelling via a side entrance. A 6-foot-high wooden privacy fence occurs along the northwestern property line, while a chain link fence runs along the southeastern and western property lines. The dwelling and associated appurtenances are surrounded by lawn and landscaped areas.

Landscape plants include rhododendron and azalea (*Rhododendron* spp.), hosta (*Hosta* sp.), Arborvitae (*Arborvitae* sp.), and rose of Sharon (*Hibiscus syriacus*). Topography gently descends southeasterly from Dow Avenue toward the backyard, and then ascends toward off-site forested uplands located southeast of the property. The canopy contains patches of Norway maple (*Acer platanoides*), with scattered individuals of American linden (*Tillia* sp.), and a single swamp white oak (*Quercus bicolor*). The understory contains patches of Japanese knotweed (*Polygonum cuspidatum*), while the groundcover contains clusters of jewelweed (*Impatiens capensis*), and ground ivy (*Glechoma hederacea*), with individuals of seedling Oriental bittersweet (*Celastrus scandens*). Entanglements of Virginia creeper (*Parthenocissus quinquefolia*) are also present in patches.

Using a hand-held, Dutch-style soil auger, LEC inspected soil conditions within uplands within the lowest elevations in the backyard and observed 10+ inches of loamy sand historic fill material (A horizon) with a soil matrix color of 10YR 2/2. The topsoil is underlain by a 3± inch thick layer of coal ash. The coal ash is underlain by a 9-inch thick, buried mucky mineral topsoil (A horizon) with a soil matrix color of 10YR 2/1. The buried topsoil is underlain by a 5+ inch thick, depleted silt loam subsoil (B<sub>g</sub> horizon) with a soil matrix color of 2.5Y 4/1. Given the depth of historic fill material and lack of any indicators of hydrology within the fill, the soil profile is <u>not</u> considered hydric in accordance with the *Field Indicators Guide*.

### Natural Heritage and Endangered Species Program Designation

According to the 2021 version of the *Massachusetts Natural Heritage Atlas*, no areas of Estimated Habitats of Rare Wildlife or Priority Habitats of Rare Species or Potential or Certified Vernal Pools exist on the site (Appendix C, Figure 3).

Pages20612444



### Floodplain Designation

According to the June 4, 2010 Federal Emergency Management Agency Flood Insurance Rate Map for Middlesex County, Massachusetts (Map No: 25017C0403E), the property is located within Zone X [unshaded]: Areas determined to be outside the 0.2% annual chance floodplain (Appendix C, Figure 2).

#### Site Evaluation



LEC conducted a site evaluation on October 12, 2023, to conduct a site evaluation and Wetland Resource Area boundary determination at the above-referenced site. During our evaluation, LEC observed an offsite, roughly 6-foot section of a stone-lined drainage ditch that flows from a corrugated plastic pipe to an old concrete culvert with a metal grate.

Northeastern view of drainage ditch and pipes

Two pink 'Wetland Delineation' flags were observed at either end of the drainage ditch with the phrase "Bank?" written in black.

LEC conducted site reconnaissance 100+ feet up-gradient and down-gradient of the ditch to determine whether any potential jurisdictional Wetland Resource Areas connect to the ditch and observed none. No evidence of any depressions or plant communities that would suggest a jurisdictional wetland within the proximity of 70 Dow Avenue were observed. The surrounding area appears to contain upland plant species similar to the community described above. It appears that the old concrete drainage pipe likely directs surface water from the plastic corrugated pipe toward stormwater infrastructure located at the intersection of George Street and Rhinecliff Street.

Based on our site evaluation and our observations of an upland plant community adjacent to the drainage ditch, alignment with the existing stormwater infrastructure, and lack of any evidence of wetlands in the surrounding area, LEC has determined that the drainage ditch is not jurisdictional under the *Act* and/or the *Bylaw*, and that no jurisdictional wetlands under the *Act* or the *Bylaw* are present on or in proximity to the site. Accordingly, the Applicant request that the Commission issue a Negative Determination of Applicability and that the Conservation Agent sign off on the Building Permit.

Page4306244

PLYMOUTH, MA WAKEFIELD, MA WORCESTER, MA RINDGE, NH EAST PROVIDENCE, RI



Thank you for your consideration of this RDA. We look forward to meeting with the Commission at the November 2, 2023 Public Hearing. Should you have any questions or require additional information, please do not hesitate to contact me via email at rkirby@lecenvironmental.com.

Sincerely,

LEC Environmental Consultants, Inc.

Richard A. Kirby

Senior Wetland Scientist

Appendices

cc: DEP, Northeast Region

Express Remodeling Group Thomas Bernardi, PLS

Express Investment Group, LLC

rak: projects\23-464.02\RD Cover Letter.doc

### Appendix A

WPA Form 1 – Request for Determination of Applicability

Bylaw Filing Fees and Transmittal Form



# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

depicted on referenced plan(s).

Arlington City/Town

# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Arlington Wetlands Protection Bylaw (Article 8)

### A. General Information

### Important: When filling out 1. forms on the computer, use only the tab key to move your cursor - do not use the return





1.	Applicant:					
	Express Remodeling Group (Samantha Almeida, Contact)	express@ex	express@expcontractor.com			
	Name	E-Mail Address	E-Mail Address			
	178 Winthrop Street					
	Mailing Address					
	Medford	MA	02155			
	City/Town	State	Zip Code			
	(781) 723-1426	(781) 723-14				
	Phone Number	Fax Number (if	applicable)			
2.	Representative (if any):					
	LEC Environmental Consultants, Inc.					
	Firm					
	Richard A. Kirby, Senior Wetland Scientist Contact Name	rkirby@iecei E-Mail Address	nvironmental.com			
		E-Mail Address				
	380 Lowell Street, Suite 101  Mailing Address					
	Wakefield	MA	01880			
	City/Town	State	Zip Code			
	781-245-2500	781-245-667	<b>'</b>			
	Phone Number		Fax Number (if applicable)			
		,	,			
В.	. Determinations					
1.	L request the Arlington make the following	a determination(s)	Check any that apply:			
١.	I request the Arlington make the following determination(s). Check any that apply:  Conservation Commission					
	Conservation Commission					
	a. whether the area depicted on plan(s) and/or map(s) referenced below is an area subject to					
	jurisdiction of the Wetlands Protection Act.					
	b. whether the <b>boundaries</b> of resource area(s) depicted on plan(s) and/or map(s) referenced					
	below are accurately delineated.					
	c. whether the <b>work</b> depicted on plan(s) referenced below is subject to the Wetlands Protection Act.					
	Arlington					
	Name of Municipality					
	e whether the following scope of alternatives is adequ	late for work in the	Riverfront Area as			



# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

Arlington City/Town

# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Arlington Wetlands Protection Bylaw (Article 8)

# C. Project Description

1.	a. Project Location (use maps and plans to identify the location	of the area subject to this request):			
	70 Dow Avenue Arlingto	Arlington			
	Street Address City/Town				
	Assessor's Parcel ID: 178-4-3				
	Assessors Map/Plat Number Parcel/Lo	ot Number			
	b. Area Description (use additional paper, if necessary):				
	The 5,500± square foot property is located north of George Street the southwest portion of Arlington. More specifically, the propert Avenue, northeast of the Rhinecliff Street intersection. Resident Avenue, George Street, and Rhinecliff Street occurs to the north Dallin School is located southeast of the site. A roughly 6-foot sed ditch occurs off-site to the southeast, and the Applicant is filing the ditch is not jurisdictional. No other jurisdictional Wetland Resour 100 feet of the site. Please refer to the attached Cover Letter for	ry is located on the east side of Dow ial development associated with Dow, west, and south, while the Cyrus E. ection of non-jurisdictional drainage his RDA for confirmation that this are Areas were observed on or within			
	c. Plan and/or Map Reference(s):				
	Plan of Land prepared by Thomas Bernardi, PLS	10/02/2023			
	Title	Date			
	Title	Date			
	Title	Date			
2.	a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):				
dw	The Applicant proposes to construct a living space addition and deck of the rear of the existing relling.				



# **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

Arlington City/Town

# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Arlington Wetlands Protection Bylaw (Article 8)

### C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

310 CMR 10.02 (2) (d): Any activity proposed or undertaken outside the areas specified in 310 CMR 10.02(1) and outside the Buffer Zone is not subject to regulation under M.G.L. c. 131, § 40 and does not require the filing of a Notice of Intent unless and until that activity actually alters an Area Subject to Protection under M.G.L. c. 131, § 40...

3.	If this application is a Request for Determination of Scope of Alternatives for work in the erfront Area, indicate the one classification below that best describes the project.
	Single family house on a lot recorded on or before 8/1/96
	Single family house on a lot recorded after 8/1/96
	Expansion of an existing structure on a lot recorded after 8/1/96
	Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
	New agriculture or aquaculture project
	Public project where funds were appropriated prior to 8/7/96
	Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
	Residential subdivision; institutional, industrial, or commercial project
	Municipal project
	District, county, state, or federal government project
	Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
	Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ove (use additional paper and/or attach appropriate documents, if necessary.)



# Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Name and address of the property owner:

Arlington City/Town

# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Arlington Wetlands Protection Bylaw (Article 8)

### D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Express Investment Group, LLC (Samamtha A	Imeida, Contact)			
Name				
140 Winthrop Road				
Mailing Address				
Medford				
City/Town				
MA	02155			
State	Zip Code			
I also understand that notification of this Request v in accordance with Section 10.05(3)(b)(1) of the W				
W. par Pul	October 20, 2023			
Signature of Applicant	Date			
TANGEN				
9900	October 20, 2023			
Signature of Representative (if any)	October 20, 2023  Date			

### **Bylaw Filing Fees and Transmittal Form**

### **Rules:**

- 1. Fees are payable at the time of filing the application and are non-refundable.
- 2.Fees shall be calculated per schedule below.
- 3. Town, County, State, and Federal Projects are exempt from fees.
- 4. These fees are in addition to the fees paid under M.G.L. Ch. 131, s.40 (ACT).

### Fee Schedule (ACC approved 1/8/15):

\$	No./Area	Category
\$150.00	1	(R1) RDA- \$150 local fee, no state fee
		(N1) Minor Project - \$200 (house addition, tennis court, swimming pool,
		utility work, work in/on/or affecting any body of water, wetland or
		floodplain).
		(N2) Single Family Dwelling - \$600
		(N3) Multiple Dwelling Structures - \$600 + \$100 per unit all or part of
		which lies within 100 feet of wetlands or within land subject to flooding.
		(N4) Commercial, Industrial, and Institutional Projects -
		\$800 + 50¢/s.f. wetland disturbed; 2¢/s.f. land subject to flooding or buffer
		zone disturbed.
		(N5) Subdivisions - \$600 + \$4/l.f. feet of roadway sideline within 100 ft. of
		wetlands or within land subject to flooding.
		(N6) Other Fees - copies, printouts; per public records law
		(N7) Minor Project Change - \$50
		(N8) Work on Docks, Piers, Revetments, Dikes, etc - \$4 per linear foot
		(N9) Resource Boundary Delineation (ANRAD) - \$1 per linear foot
		(N10) Certificate of Compliance (COC or PCOC) - No charge if before
		expiration of Order, \$200 if after that date.
		(N11) Amendments - \$300 or 50% of original local filing fee, whichever is
		less.
		(N12) Extensions -
		a. Single family dwelling or minor project - \$100.
		<b>b. Other</b> - \$150.
		(N13) Consultant Fee -per estimate from consultant
\$150.00	TOTAL	

**Note:** Submit this form along with the forms submitted for the ACT - the "Wetlands Filing Fee Calculations Worksheet," and the "Notice of Intent Fee Transmittal Form."

### Appendix B

Affidavit of Service Abutter Notification Letter Abutter Notification Form List of Abutters and Map

### **Affidavit of Service**

I, Sharon A. Sullivan, being duly sworn, do hereby state as follows:

On <u>October 25, 2023</u>, I mailed a "Notification to Abutters" in compliance with the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws in connection with the following matter:

Confirmation that no jurisdictional Wetland Resource Areas occur on or within 100 feet of 70 Dow Avenue, Arlington, MA.

The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of Service.

Signed under the pains and penalties of perjury, this 25<sup>th</sup> day of October 2023.

Sharon A. Sullivan

Permitting Technician

aron a Sullivan

[LEC File #: ERG\23-464.04]

October 25, 2023

#### **CERTIFIED MAIL**

«Name»

«Name2»

«Address»

«City», «State» «Zip»

Re: Request for Determination of Applicability

70 Dow Avenue

Assessor's Parcel ID: 178-4-3 Arlington, Massachusetts

#### Dear Abutter:

On behalf of the Applicant, Express Remodeling Group, LEC Environmental Consultants, Inc. (LEC) has filed a Request for Determination of Applicability (RDA) Application with the Arlington Conservation Commission to confirm that no jurisdictional Wetland Resource Areas under the *Massachusetts Wetlands Protection Act* (the *Act*, M.G.L. c. 131, s. 40) and its implementing *Regulations* (the *Act Regulations*, 310 CMR 10.00), and the *Town of Arlington Wetlands Protection Bylaw* (Article 8, the *Bylaw*) and its *Regulations Pursuant to the Town of Arlington Regulations for Wetlands Protection* (the *Bylaw Regulations*) occur on or within 100 feet of the subject property.

The RDA Application and accompanying plans are available for review by contacting the Arlington Conservation Commission. The remote Public Hearing will be held on November 2, 2023 beginning at 7:00 p.m., in accordance with the provisions of the *Act, Regulations, Bylaw,* and *Bylaw Regulations*. Further information regarding this application will be published at least five (5) days in advance in *The Arlington Advocate*. Notice of the Public Hearing will also be posted at the Arlington Town Hall at least 48 hours in advance. Please check the Town's website and the Board/Committee's page for any updated information on the meeting.

Please do not hesitate to review the materials and/or attend the public hearing should you have questions or concerns about the proposed project.

Sincerely,

LEC Environmental Consultants, Inc.

Richard A. Kirby

Senior Wetland Scientist

www.lecenvironmental.com

#### **Abutter Notification**

### Notification to Abutters Under the Arlington Wetlands Protection Bylaw

In accordance with the Arlington Wetlands Protection Bylaw, you are hereby notified of the following:

The Conservation Commission will hold a virtual public meeting using Zoom on Thursday, November 2, 2023, at 7:00 p.m. in accordance with the provisions of the Town of Arlington Bylaws Article 8, Bylaw for Wetland Protection, and in accordance with the Governor's Order Suspending Certain Provisions of the Open Meeting Law, G. L. c. 30A, § 20 relating to the COVID-19 emergency, for a Request for Determination of Applicability from Express Remodeling Group for confirmation that no jurisdictional Wetland Resource Areas occur on or within 100 feet of 70 Dow Avenue (Assessor's Property Map 178-4-3). Please refer to the Commission's online meeting agenda for specific Zoom meeting access information.

A copy of the application and accompanying plans are available by request by contacting the Arlington Conservation Commission at 781-316-3012 or <a href="mmuszynski@town.arlington.ma.us">mmuszynski@town.arlington.ma.us</a>. For more information, call the Applicant's representative, LEC Environmental Consultants, Inc., at 781-245-2500 or the Arlington Conservation Commission at 781-316-3229, or the DEP Northeast Regional Office at 978-694-3200.

NOTE: Notice of the Public Hearing will be published at least five (5) business days in advance in *The Arlington Advocate* and will also be posted at least 48 hours in advance in the Arlington Town Hall.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*



**CERTIFIED ABUTTERS LIST** 

**Date: October 19, 2023** 

Subject Property Location: 70 DOW AVE Arlington, MA

**Subject Property ID: 178-4-3** 

Search Distance: 100 Feet Conservation

Parcel ID	Property Location	Name	Name2	Address	City	State	Zip
159-10-1	185 FLORENCE AVE	TOWN OF ARLINGTON SCHOOL	DALLIN SCHOOL	730 MASS AVE	ARLINGTON	MA	02476
178-3-2.A	59 DOW AVE	MURPHY KERRY L		59 DOW AVE	ARLINGTON	MA	02476
178-3-3	63 DOW AVE	MCGRATH LARA & EDWARD		63 DOW AVE	ARLINGTON	MA	02476
178-3-4	67 DOW AVE	MCMURRAY DEBORAH		67 DOW AVENUE	ARLINGTON	MA	02476
178-3-5	71 DOW AVE	MC DONOUGH PAUL FETAL	MC DONOUGH JACQUELINE M	71 DOW AVE	ARLINGTON	MA	02476
178-4-1.A	64 DOW AVE	SULLIVAN DUANE M/ETAL	MALOUF RICHARD A & DONNA M	64 DOW AVENUE	ARLINGTON	MA	02476
178-4-2.A	66 DOW AVE	CASEY ELLEN		66 DOW AVENUE	ARLINGTON	MA	02476
178-4-3	70 DOW AVE	EXPRESS GROUP INVESTMENTS LLC		180 WINTHROP ST	MEDFORD	MA	02155
178-4-4	74 DOW AVE	WILLIAMS CHRISTOPHER/ETAL	MCCAFFREY BRIDGET	74 DOW AVENUE	ARLINGTON	MA	02476
178-4-5	78 DOW AVE	CHIHA STEPHANIE G/ TRUSTEE	STEPHANIE G CHIHA TRUST	78 DOW AVE	ARLINGTON	MA	02476
178-4-6.A	0-LOT GEORGE ST	TOWN OF ARLINGTON SELECTMEN	Town Hall	730 MASS AVE	ARLINGTON	MA	02476
178-11-1	11 GEORGE ST	EVANS PETER N &	MASCARENHAS ELENA S	11 GEORGE ST	ARLINGTON	MA	02476

The Board of Assessors certifies the names and addresses of the requested parties in interest, all abutters to a single parcel within 100 feet.



Town of Arlington
Office of the Board of Assessors
730 Massachusetts Ave.
Arlington, MA 02476
phone: 781.316.3050

email: assessors@town.arlington.ma.us



### Appendix C

Figure 1: USGS Topographic Map

Figure 2: FEMA FIRMette

Figure 3: MassGIS Orthophoto

Figure 4: Arlington GIS Map

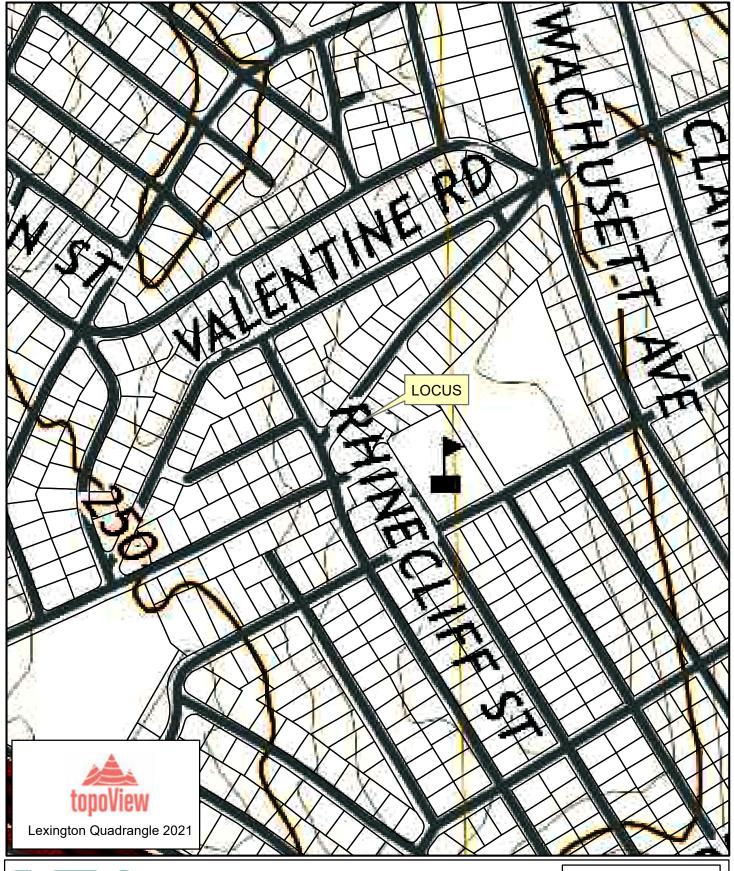
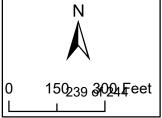




Figure 1: USGS Topographic Map 70 Dow Avenue Arlington, MA

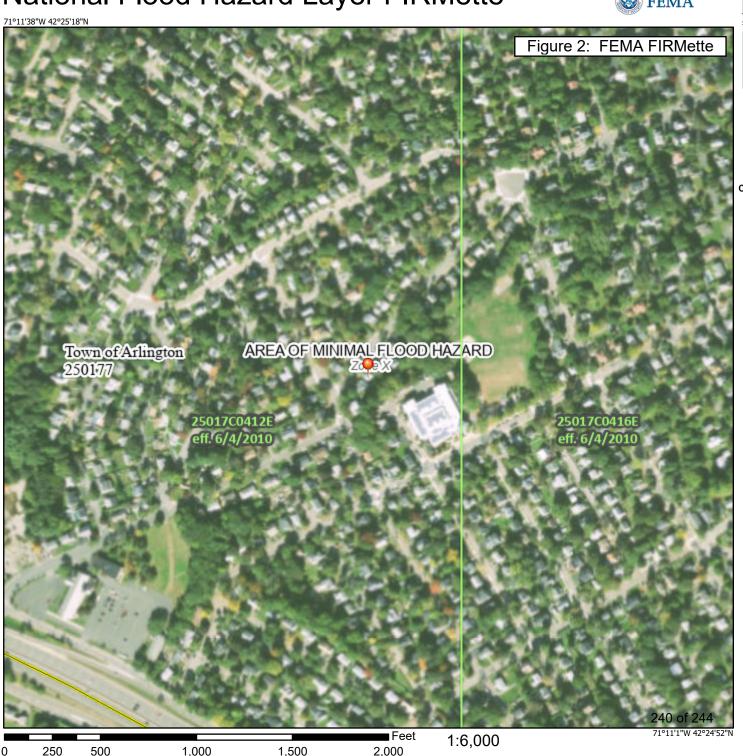
October 24, 2023



www.lecenvironmental.com

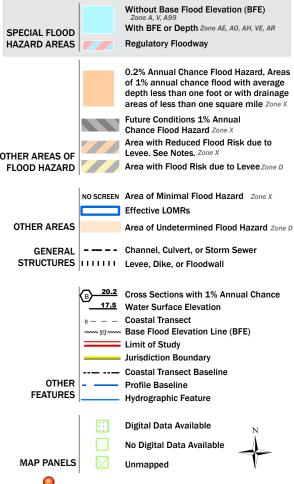
# National Flood Hazard Layer FIRMette





### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The pin displayed on the map is an approximate point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/4/2023 at 10:10 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

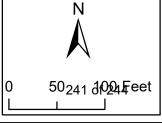




www.lecenvironmental.com

Figure 3: MassGIS Orthophoto & NHESP Map 70 Dow Avenue Arlington, MA

October 24, 2023





## Appendix D

Plan of Land, prepared by Professional Land Surveyor Thomas Bernardi, dated October 2, 2023

# PLAN OF LAND

LOCATED AT **70 DOW AVENUE** ARLINGTON, MA

SCALE: 1 INCH = 20 FEET



66 DOW AVE. CASEY

TH OF MASO

THOMAS P.

BERNARDI

NO. 49190

### **ELEVATIONS**

FIRST FLOOR:100' ROOF HEIGHT FROM FIRST FLOOR: 126.4' AVERAGE GRADE AT SIDEWALK: 96.1'

### **ZONING: R1**

MIN. LOT SIZE: 6,000+/-SF MIN FRONTAGE: 60' FRONT SETBACK: 25' SIDE SETBACKS: 10' REAR SETBACK: 20' MAX. LOT. COV.: 35% EXIST.: 18% PROPOSED: 32% (PROPOSED LOT COV = EXISTING HOUSE/GARAGE PROPOSED ADDITION AND PROPOSED DECK). MAX. HEIGHT: 35'/2.5 MIN. OPEN SPACE: LANDSCAPED: 10% USABLE: 30%

### REFERENCES

DEED: BOOK 76431, PAGE 161 PLANS: 286-49 AND 86-1

### NOTES

THIS PLAN WAS MADE FROM AN INSTRUMENT SURVEY ON THE GROUND IN AUGUST OF 2023 AND ALL STRUCTURES ARE LOCATED AS SHOWN HEREON.

THIS PLAN WAS PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

THOMAS BERNARDI P.L.S.

DATE: OCTOBER 2, 2023

# 50.00' 25' BUFFER \_\_\_ **GARAGE** ZONE 38.5' 69.5' 50' BUFFER ZONE **PROPOSED** 74 DOW AVE. DECK WILLIAMS 13.3' PROPOSED ADDITION PAVED D.W. 2.5 STORY 100' BUFFER NO. 70 ZONE 13.6' 580.00' PC @ LOT 38B

TOWN OF ARLINGTON

DOW (PUBLIC 50' WIDE) AVENUE

5,500+/-SF

50.00'

# MASSACHUSETTS SURVEY CONSULTANTS

GLOUCESTER, MA 01930 617-899-0703

WACHUSETT AVE.

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